

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 39 FT

RUNWAY 05 VDPP

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				JINBIANJI CHANG JPZ/INTERNATIONAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
61A	650	636*/37-38-42 650*/40-40-43 655*/40-40-43		
		641**43-45-48 667**47-48-52 675**49-50-53		
58A	666	651*/39-40-44 666*/41-41-45 671*/41-41-45		
		655**43-45-49 681**49-50-53 690**50-51-54		
55A	682	666*/40-41-45 682*/43-43-47 687*/43-43-47		
		669**44-46-50 696**50-51-55 705**51-53-56		
52	700	682*/41-43-47 700*/44-44-48 705*/44-44-48		
		685**45-47-51 712**50-52-56 722**53-55-58		
49	719	699*/43-44-48 718*/46-46-50 724*/46-46-50		
		701**46-48-52 730**53-55-59 739**54-56-60		
46	739	716*/44-46-50 738*/47-48-52 743*/47-48-52		
		718**46-49-53 748**54-56-60 757**56-58-62		
43	758	733*/45-47-52 756*/48-50-54 762*/49-50-54		
		735**47-49-54 765**54-57-61 775**57-59-63		
40	778	751*/46-49-54 775*/50-51-56 781*/50-51-56		
		782**54-57-61 790**54-56-60		
37	798	768*/47-50-55 794*/50-52-57 799*/51-52-57		
34	818	784F/48-51-57 811*/50-52-57 818*/50-52-57		
31	840	797F/48-52-58 826*/49-52-58 834*/49-52-58		
28	848	805F/48-52-58 832*/49-52-58 841*/49-52-58		
25	849	808*/48-52-58 834*/49-52-58 843*/49-52-58		
22	850	810*/48-52-58 836*/49-52-58 845*/49-52-58		
19	851	811*/48-51-58 838*/49-51-58 847*/49-51-58		
16	852	813*/48-51-58 840*/49-51-58 849*/49-51-58		
13	852	815*/48-51-58 842*/49-51-58 851*/49-51-58		
10	853	817*/48-51-58 844*/49-51-58 852*/49-51-58		
5	855	820*/48-51-58 847*/49-51-58 854*/49-51-58		
0	856	823*/48-51-58 849*/49-51-58 855*/49-51-58		
-5	857	825*/48-51-58 850*/49-51-58 856*/49-51-58		
-10	857	828*/48-51-58 851*/49-51-58 857*/50-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 800 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05 72 1199 0 505 9492 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 39 FT

RUNWAY 23 VDPP

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JINBIANJICHANG
JPZ/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	650	607*/33-34-39	628*/37-37-41	635*/38-38-42	
		612**40-43-47	637**47-49-52	645**48-50-53	
58A	666	620*/35-36-40	642*/38-38-43	649*/39-39-43	
		626**41-44-48	650**48-50-54	659**49-51-55	
55A	682	634*/36-37-42	656*/40-40-44	664*/41-41-45	
		639**42-44-49	665**49-52-56	673**51-53-57	
52	700	649*/37-39-44	673*/41-41-46	680*/42-42-47	
		655**43-46-50	681**50-52-56	690**52-54-58	
49	719	666*/39-40-46	690*/42-43-48	697*/44-44-48	
		671**44-47-52	698**50-53-57	707**53-55-59	
46	739	683*/40-42-47	707*/44-45-49	715*/45-45-50	
		687**45-48-54	715**51-53-58	724**53-56-60	
43	758	699*/41-43-49	724*/45-46-51	733*/46-47-52	
		703**47-51-56	732**52-55-60	741**54-56-61	
40	778	716*/43-45-51	742*/46-48-53	751*/47-49-54	
		719**48-51-57	749**53-56-61	759**55-58-63	
37	798	733*/44-46-52	760*/47-49-55	769*/49-50-55	
		735**48-52-58	766**54-58-63	776**56-59-64	
34	818	750*/45-48-54	778*/49-51-56	787*/50-52-57	
		752**49-53-59	783**55-59-64	790**52-54-59	
31	840	767*/46-49-56	795*/49-52-58	804*/50-52-58	
		769**49-54-60			
28	848	774*/46-50-56	802*/49-52-58	810*/49-52-58	
		776**50-54-60			
25	849	776*/47-50-56	804*/49-52-58	812*/49-52-58	
		778**50-55-61			
22	850	778*/47-50-57	805*/49-52-58	814*/49-52-58	
		780**51-55-62			
19	851	780*/47-50-57	807*/49-51-58	815*/49-51-58	
		782**51-56-62			
16	852	782*/47-51-57	808*/49-51-58	817*/49-51-58	
		784**52-57-63			
13	852	783*/47-51-57	810*/49-51-58	818*/49-51-58	
		786**53-57-63			
10	853	785*/48-51-57	811*/49-51-58	820*/49-51-58	
		788**52-57-63			
5	855	788*/48-51-58	814*/49-51-58	822*/49-51-58	
		790**49-53-59			
0	856	791*/48-51-58	816*/49-51-58	825*/49-51-58	
-5	857	793*/48-51-58	819*/49-51-58	827*/50-51-58	
-10	857	795*/48-51-58	820*/49-51-58	829*/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
23 13 215 0 69 771 0 151 1703 0ENG-OUT PROCEDURE: ALLOWABLE TAKEOFF WEIGHTS FOR RWY 23 BASED ON A 15 DEGREE BANKED
CLIMBING -LEFT- TURN, COMMENCED AT D2.5 PNH VOR TO A MAG COURSE OF 160 DEGREES.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 05

VDSR

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	WUGEJICHANG XL/INTERNATIONAL DATED 10-JUN-2019
737-800 CFM56-7B26			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 650	606F/33-34-39	645F/39-39-43	659*/40-40-43 655**42-42-45
58A 666	617F/34-35-40	657F/40-40-44	671F/41-41-45 669**42-42-46
55A 682	628F/35-37-42	669F/41-41-45	684F/43-43-47 683**43-43-47
52 700	641F/36-38-43	683F/42-43-47	698F/44-44-48
49 719	654F/37-39-44	697F/43-44-48	712F/45-45-50
46 739	667F/38-40-46	711F/44-45-50	726F/46-47-51
43 758	680F/39-41-47	725F/45-46-51	741F/47-48-53
40 778	693F/40-42-49	740F/46-47-53	756F/48-49-54
37 798	706F/41-43-50	755F/47-49-54	771F/49-50-56
34 818	719F/42-44-51	769F/48-50-56	787F/50-52-57
31 839	731F/42-45-53	782F/49-51-57	800F/50-52-57
28 847	738F/43-46-53	790F/49-52-58	808F/49-52-58
25 848	742F/43-46-54	794F/49-52-58	812F/49-52-58
22 849	745F/43-47-54	798F/49-52-58	816F/49-52-58
19 850	749F/44-47-54	802F/49-52-58	820F/49-52-58
16 851	752F/44-48-55	806F/49-51-58	825F/49-51-58
13 852	756F/45-48-55	810F/49-51-58	829F/49-51-58
10 853	760F/45-48-55	814F/49-51-58	833F/49-51-58
5 854	766F/46-49-56	821F/49-51-58	839*/50-51-58
0 855	772F/46-50-56	828F/49-51-58	843*/50-51-58
-5 856	778F/47-50-57	835F/49-51-58	846*/50-51-58
-10 857	785F/48-51-57	839*/49-51-58	849*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2550 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.10 PERCENT FOR TODA AND 0.10 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05 39 806 0

ENG-OUT PROCEDURE: ALLOWABLE TAKEOFF WEIGHTS FOR RUNWAY 05 BASED ON A 15
DEGREE BANKED CLIMBING -LEFT- TURN, COMMENCED AT D1.3 SRE VOR TO A MAG
COURSE OF 310 DEGREES. INTERCEPT AND TRACK OUTBOUND ON THE SRE R-340.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 23 VDSR

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

WUGEJICHANG
XL/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	650	604*/33-34-39	634*/38-38-42	644*/39-39-43
58A	666	616*/34-35-40	647*/39-39-43	657*/40-40-44
55A	682	629*/35-37-42	660*/40-40-45	671*/42-42-46
52	700	643*/36-38-43	675*/41-42-46	686*/43-43-47
49	719	656F/37-39-45	691*/42-43-48	702*/44-44-49
46	739	670F/38-40-46	707*/44-45-49	719*/45-46-50
43	758	683F/39-42-47	723*/45-46-51	735*/46-47-52
40	778	696F/40-43-49	739*/46-47-53	751*/47-49-54
37	798	709F/41-44-50	755*/47-49-54	768*/48-50-55
34	818	721F/42-45-52	772*/48-50-56	785*/49-51-57
31	839	734F/42-46-53	785F/49-51-57	799*/49-52-57
28	847	740F/43-46-54	793F/49-52-58	805*/49-52-58
25	848	744F/43-47-54	796*/49-52-58	807*/49-52-58
22	849	748F/43-47-54	799*/49-52-58	809*/49-52-58
19	850	751F/44-47-54	801*/49-52-58	811*/49-52-58
16	851	755F/44-48-55	803*/49-51-58	814*/49-51-58
13	852	759F/45-48-55	805*/49-51-58	816*/49-51-58
10	853	762F/45-49-55	807*/49-51-58	818*/49-51-58
5	854	769F/46-49-56	811*/49-51-58	822*/49-51-58
0	855	775F/46-50-56	815*/49-51-58	825*/49-51-58
-5	856	781F/47-51-57	818*/49-51-58	829*/49-51-58
-10	857	788F/48-51-58	822*/49-51-58	832*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*-=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2550 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.10 PERCENT FOR TODA AND -0.10 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
23 39 530 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 10 FT

RUNWAY 03

VDSV

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIHANUKEJICHANG
XHNK/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	602F/33-34-39	630*/37-37-41	636*/38-38-42
			634**40-40-44	643**42-43-46
58A	667	613F/34-35-40	644*/39-39-43	650*/40-40-44
			648**40-41-45	657**43-44-47
55A	683	624F/35-36-41	659*/40-40-44	665*/41-41-45
			662**41-42-46	671**44-44-48
52	701	637F/36-37-43	675*/41-42-46	682*/42-43-47
			677**42-42-47	687**44-45-49
49	720	650F/37-38-44	693F/43-43-48	700*/44-44-49
				703**45-46-50
46	740	662F/38-40-45	707F/44-45-49	718*/45-46-50
				720**46-47-51
43	759	675F/39-41-47	721F/45-46-51	736*/46-47-52
40	779	688F/39-42-48	736F/46-47-52	752F/47-49-54
37	799	701F/40-43-50	751F/46-48-54	767F/48-50-55
34	819	714F/41-44-51	764F/47-49-55	782F/49-51-57
31	840	726F/42-45-52	778F/48-50-56	796F/49-52-58
28	848	732F/42-45-53	785F/48-51-57	803F/49-52-58
25	849	736F/42-46-53	789F/49-51-57	807F/49-52-58
22	850	740F/43-46-53	793F/49-52-58	811F/49-52-58
19	851	743F/43-47-54	796F/49-51-58	815F/49-51-58
16	852	747F/44-47-54	800F/49-51-58	819F/49-51-58
13	853	751F/44-47-54	805F/49-51-58	822*/49-51-58
10	854	754F/44-48-55	809F/49-51-58	824*/49-51-58
5	855	761F/45-48-55	816F/49-51-58	826*/49-51-58
0	856	767F/46-49-56	820*/49-51-58	828*/49-51-58
-5	857	773F/46-50-56	822*/49-51-58	830*/49-51-58
-10	858	779F/47-50-57	823*/49-51-58	831*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 720 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

03	177	3276	0	220	3282	0	279	5749	0
	325	8667	0	404	9417	0	453	9508	0
	469	9968	0	479	10059	0			

ENG-OUT PROCEDURE: At D0.5 IKOS LEFT turn to 360.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 10 FT

RUNWAY 21 VDSV

*** FLAPS 05 ***		AIR COND AUTO	ANTI-ICE OFF	XIHANUKE JICHANG XHNK/INTERNATIONAL DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10	0
C				10
61A	651	602F/33-34-39	641F/39-39-42	655F/40-40-43
				653**41-41-44
58A	667	613F/34-35-40	653F/40-40-44	667F/41-41-45
55A	683	624F/35-36-41	665F/41-41-45	680F/43-43-46
52	701	637F/36-37-43	679F/42-42-46	693F/44-44-48
49	720	650F/37-38-44	693F/43-43-48	708F/45-45-49
46	740	662F/38-40-45	707F/44-45-49	722F/46-46-51
43	759	675F/39-41-47	721F/45-46-51	737F/46-47-52
40	779	688F/39-42-48	736F/46-47-52	752F/47-49-54
37	799	701F/40-43-50	751F/46-48-54	767F/48-50-55
34	819	714F/41-44-51	764F/47-49-55	782F/49-51-57
31	840	726F/42-45-52	778F/48-50-56	796F/49-52-58
28	848	732F/42-45-53	785F/48-51-57	803F/49-52-58
25	849	736F/42-46-53	789F/49-51-57	807F/49-52-58
22	850	740F/43-46-53	793F/49-52-58	811F/49-52-58
19	851	743F/43-47-54	796F/49-51-58	815F/49-51-58
16	852	747F/44-47-54	800F/49-51-58	819F/49-51-58
13	853	751F/44-47-54	805F/49-51-58	823F/49-51-58
10	854	754F/44-48-55	809F/49-51-58	828F/49-51-58
5	855	761F/45-48-55	816F/49-51-58	835F/49-51-58
0	856	767F/46-49-56	823F/49-51-58	842F/49-51-58
-5	857	773F/46-50-56	830F/49-51-58	849F/49-51-58
-10	858	779F/47-50-57	837F/49-51-58	856F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

ENG-OUT PROCEDURE: At D1.4 IKOS RIGHT turn to 240.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03L VTBD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

LANGMANJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	C 100KG	-10	0	10
61A	651	665*/39-40-43	681*/40-40-43	686*/40-40-43	
		677**51-53-56	684**53-55-58	684**53-55-58	
58A	667	680*/41-41-45	697*/41-41-45	702*/41-41-45	
		692**51-54-57	701**54-56-60	701**55-56-60	
55A	683	696*/42-43-47	713*/43-43-47	718*/43-43-47	
		707**52-55-58	718**56-58-61	718**56-58-61	
52	701	713*/43-45-48	731*/44-45-48	737*/45-45-48	
		724**52-55-58	737**58-60-63	737**58-60-63	
49	720	731*/45-46-50	749*/46-46-50	755*/46-46-50	
		741**53-55-59	757**59-62-65	757**59-62-65	
46	740	750*/46-48-52	768*/47-48-52	775*/47-48-52	
		756**51-54-58	778**61-64-68	778**61-64-68	
43	759	768*/48-50-54	787*/49-50-54	793*/49-50-54	
		768**50-53-57	790**59-61-65	790**59-61-65	
40	779	785B/49-52-56	806*/50-52-56	813*/50-52-56	
		781**50-52-56	790**53-55-59	790**53-55-59	
37	799	788B/49-52-57	824*/50-52-57	831*/51-52-57	
34	819	796B/49-52-57	841*/50-52-57	848*/50-52-57	
31	841	807B/48-52-58	858*/49-52-58	862F/49-52-58	
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58	
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58	
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58	
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58	
16	852	848*/48-51-58	862F/49-51-58	862F/49-51-58	
13	853	850*/48-51-58	862F/49-51-58	862F/49-51-58	
10	854	852*/48-51-58	862F/49-51-58	862F/49-51-58	
5	855	855*/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	857*/48-51-58	862F/49-51-58	862F/49-51-58	
-5	857	860*/48-51-58	862F/49-51-58	862F/49-51-58	
-10	858	862*/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3700 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03L 72 1290 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03L/R/P VTBD

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			LANGMAN JICHANG MG/INTERNATIONAL DATED 10-JUN-2019	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
OAT	CLIMB	C 100KG	-10	0	10	
61A	651	624*/36-37-41	648*/39-39-43	655*/40-40-43		
		625**38-39-43	652**45-46-50	660**46-47-50		
58A	667	637*/37-38-42	662*/41-41-45	670*/41-41-45		
			666**46-47-51	675**48-49-53		
55A	683	651*/38-39-44	677*/42-42-46	685*/43-43-47		
			680**47-48-52	689**49-50-54		
52	701	667*/39-41-45	693*/43-44-48	701*/45-45-48		
			696**47-49-53	706**50-51-55		
49	720	682F/41-42-47	710*/45-45-49	719*/46-46-50		
			712**48-50-54	722**51-52-56		
46	740	696F/42-43-48	728*/46-47-51	737*/47-48-52		
			730**49-50-55	740**51-53-57		
43	759	710F/43-45-50	745*/47-48-53	754*/48-49-54		
			747**49-51-56	757**52-54-58		
40	779	724F/43-46-51	762*/48-50-55	772*/50-51-55		
			764**50-52-57	775**53-55-59		
37	799	737F/44-47-53	780*/49-51-56	790*/51-52-57		
			781**51-53-58			
34	819	750F/45-48-54	797*/50-52-57	806*/50-52-57		
31	841	763F/45-49-55	811*/49-52-58	820*/49-52-58		
28	848	770F/46-49-56	817*/49-52-58	826*/49-52-58		
25	849	774F/46-50-56	819*/49-52-58	828*/49-52-58		
22	850	777F/47-50-57	821*/49-51-58	830*/49-51-58		
19	851	781F/47-51-57	823*/49-51-58	832*/49-51-58		
16	852	785F/47-51-57	825*/49-51-58	834*/49-51-58		
13	853	789F/48-51-58	827*/49-51-58	836*/49-51-58		
10	854	793F/48-51-58	829*/49-51-58	838*/49-51-58		
5	855	799F/48-51-58	832*/49-51-58	841*/49-51-58		
0	856	806F/48-51-58	835*/49-51-58	844*/49-51-58		
-5	857	809*/48-51-58	838*/49-51-58	847*/49-51-58		
-10	858	812*/48-51-58	840*/49-51-58	849*/50-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2601 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03L/R/P 72 1290 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03L/S VTBD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

LANGMANJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	C 100KG	-10	0	10
61A	651	641*/38-39-42	663*/40-40-43	669*/40-40-43	
		645**44-46-49	670**48-49-53	679**50-52-55	
58A	667	655*/39-40-44	677*/41-41-45	684*/41-41-45	
		659**45-47-51	685**49-50-54	694**51-52-56	
55A	683	670*/40-41-45	693*/43-43-47	700*/43-43-47	
		673**46-49-53	700**50-52-55	709**52-53-56	
52	701	686*/42-43-47	710*/44-45-48	717*/45-45-48	
		689**47-50-54	717**52-54-58	726**54-55-59	
49	720	703*/43-44-49	728*/46-46-50	735*/46-46-50	
		706**48-51-55	734**53-55-59	744**55-56-60	
46	740	720*/44-46-51	746*/47-48-52	753*/47-48-52	
		723**49-51-56	752**54-57-61	762**56-58-62	
43	759	738*/45-48-52	764*/49-50-54	771*/49-50-54	
		739**48-51-56	769**55-57-61	779**57-60-64	
40	779	755*/47-49-54	782*/50-52-56	790*/50-52-56	
		757**48-51-56	787**55-58-62	790**53-55-59	
37	799	773*/48-51-56	799*/50-52-57	807*/51-52-57	
34	819	790*/49-52-57	814*/50-52-57	822*/50-52-57	
31	841	804*/48-52-58	830*/49-52-58	838*/49-52-58	
28	848	810*/48-52-58	836*/49-52-58	844*/49-52-58	
25	849	812*/48-52-58	838*/49-52-58	846*/49-52-58	
22	850	813*/48-51-58	840*/49-51-58	848*/49-51-58	
19	851	815*/48-51-58	842*/49-51-58	850*/49-51-58	
16	852	817*/48-51-58	843*/49-51-58	852*/49-51-58	
13	853	819*/48-51-58	845*/49-51-58	854*/49-51-58	
10	854	821*/48-51-58	847*/49-51-58	856*/49-51-58	
5	855	824*/48-51-58	850*/49-51-58	859*/49-51-58	
0	856	826*/48-51-58	853*/49-51-58	861*/49-51-58	
-5	857	829*/48-51-58	855*/49-51-58	862F/49-51-58	
-10	858	832*/48-51-58	858*/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2979 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03L/S 72 1290 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03R VTBD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			LANGMAN JICHANG MG/INTERNATIONAL DATED 10-JUN-2019		
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10
61A	651	644*/38-39-43	663*/40-40-43	668*/40-40-43	
		656**49-51-55	679**52-54-57	684**53-55-58	
58A	667	659*/40-40-44	678*/41-41-45	684*/41-41-45	
		671**50-53-56	694**53-56-59	701**55-56-60	
55A	683	674*/41-42-46	694*/43-43-47	700*/43-43-47	
		686**51-54-58	709**55-57-60	717**56-58-61	
52	701	691*/42-43-48	711*/44-45-48	717*/45-45-48	
		702**51-54-58	727**56-59-62	735**57-60-63	
49	720	709*/44-45-49	729*/46-46-50	736*/46-46-50	
		719**52-55-59	745**57-60-64	753**59-61-65	
46	740	727*/45-47-51	748*/47-48-52	755*/47-48-52	
		737**52-55-59	763**59-62-65	772**60-63-66	
43	759	745*/46-48-53	767*/49-50-54	773*/49-50-54	
		753**52-56-60	781**59-62-66	790**61-64-68	
40	779	763*/47-50-55	786*/50-52-56	792*/50-52-56	
		769**51-54-59	790**53-55-59	790**54-55-59	
37	799	781*/49-51-56	803*/50-52-57	810*/51-52-57	
		783**50-53-58			
34	819	796B/49-52-57	820*/50-52-57	827*/50-52-57	
31	841	807B/48-52-58	837*/49-52-58	844*/49-52-58	
28	848	816B/48-52-58	843*/49-52-58	851*/49-52-58	
25	849	822*/48-52-58	845*/49-52-58	853*/49-52-58	
22	850	824*/48-51-58	847*/49-51-58	854*/49-51-58	
19	851	825*/48-51-58	848*/49-51-58	856*/49-51-58	
16	852	827*/48-51-58	850*/49-51-58	858*/49-51-58	
13	853	829*/48-51-58	852*/49-51-58	859*/49-51-58	
10	854	830*/48-51-58	853*/49-51-58	861*/49-51-58	
5	855	833*/48-51-58	856*/49-51-58	862F/49-51-58	
0	856	835*/48-51-58	858*/49-51-58	862F/49-51-58	
-5	857	837*/48-51-58	860*/49-51-58	862F/49-51-58	
-10	858	839*/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3500 M LONG WITH 150 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03R 72 1070 0 118 1800 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03R/S VTBD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

LANGMANJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	651	639*/38-38-42 649**47-50-54	658*/40-40-43 672**51-53-56	664*/40-40-43 680**53-54-57
58A	667	653*/39-40-44 663**48-51-54	673*/41-41-45 687**53-55-58	679*/41-41-45 695**54-56-59
55A	683	668*/40-41-45 678**49-52-55	688*/43-43-47 702**54-56-60	695*/43-43-47 710**55-57-61
52	701	685*/42-43-47 694**49-52-56	706*/44-45-48 719**55-58-61	712*/45-45-48 728**57-59-62
49	720	702*/43-44-49 711**50-53-57	724*/46-46-50 737**56-59-63	731*/46-46-50 746**58-61-64
46	740	720*/44-46-51 728**51-54-58	743*/47-48-52 755**56-59-62	750*/47-48-52 764**59-61-65
43	759	738*/46-48-52 745**51-54-59	761*/49-50-54 773**57-59-63	768*/49-50-54 782**59-62-66
40	779	756*/47-49-54 762**52-55-60	780*/50-52-56 790**57-60-64	787*/50-52-56 790**54-55-59
37	799	774*/48-51-56 778**50-54-59	798*/50-52-57	805*/51-52-57
34	819	792*/49-52-57	814*/50-52-57	821*/50-52-57
31	841	807*/48-52-58	831*/49-52-58	838*/49-52-58
28	848	814*/48-52-58	837*/49-52-58	845*/49-52-58
25	849	815*/48-52-58	839*/49-52-58	847*/49-52-58
22	850	817*/48-51-58	841*/49-51-58	848*/49-51-58
19	851	818*/48-51-58	842*/49-51-58	850*/49-51-58
16	852	820*/48-51-58	844*/49-51-58	851*/49-51-58
13	853	822*/48-51-58	845*/49-51-58	853*/49-51-58
10	854	823*/48-51-58	847*/49-51-58	855*/49-51-58
5	855	826*/48-51-58	850*/49-51-58	857*/49-51-58
0	856	828*/48-51-58	852*/49-51-58	860*/49-51-58
-5	857	830*/48-51-58	854*/49-51-58	862F/49-51-58
-10	858	832*/48-51-58	856*/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3309 M LONG WITH 150 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03R/S 72 1070 0 118 1800 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03R/W VTBD

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			LANGMAN JICHANG MG/INTERNATIONAL DATED 10-JUN-2019			
737-800		CFM56-7B26						
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
		C	100KG	-10	0	10		
61A	651	623*/36-36-41	644*/39-39-43	650*/40-40-43				
		625**40-42-46	652**45-46-50	660**47-48-51				
58A	667	637*/37-38-42	658*/40-40-44	665*/41-41-45				
		638**40-42-47	666**46-48-51	675**48-49-52				
55A	683	651*/38-39-44	673*/42-42-46	680*/43-43-46				
			680**47-49-53	689**49-50-54				
52	701	666*/39-41-45	690*/43-43-47	697*/44-44-48				
			695**47-48-52	705**50-52-56				
49	720	683*/41-42-47	707*/44-45-49	715*/45-46-50				
			712**50-52-57	722**51-53-57				
46	740	699*/42-44-49	725*/46-47-51	733*/47-47-52				
			730**51-53-57	740**53-56-60				
43	759	716*/43-45-50	743*/47-48-53	751*/48-49-53				
			746**51-53-58	757**54-56-60				
40	779	732*/44-47-52	761*/48-50-54	769*/49-51-55				
			764**51-54-58	774**54-57-61				
37	799	746F/45-48-53	779*/49-51-56	788*/50-52-57				
			782**52-54-59	790**52-54-58				
34	819	759F/46-49-55	797*/50-52-57	805*/50-52-57				
31	841	773F/46-50-56	811*/49-52-58	820*/49-52-58				
28	848	780F/47-50-57	817*/49-52-58	826*/49-52-58				
25	849	783F/47-51-57	819*/49-52-58	828*/49-52-58				
22	850	787F/48-51-57	821*/49-51-58	830*/49-51-58				
19	851	791F/48-51-58	823*/49-51-58	832*/49-51-58				
16	852	795F/48-51-58	825*/49-51-58	834*/49-51-58				
13	853	799F/48-51-58	826*/49-51-58	836*/49-51-58				
10	854	800*/48-51-58	828*/49-51-58	837*/49-51-58				
5	855	803*/48-51-58	832*/49-51-58	840*/49-51-58				
0	856	806*/48-51-58	834*/49-51-58	843*/49-51-58				
-5	857	809*/48-51-58	836*/49-51-58	845*/49-51-58				
-10	858	812*/48-51-58	838*/49-51-58	847*/50-51-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2819 M LONG WITH 150 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03R/W 72 1070 0 118 1800 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21L VTBD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

LANGMANJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	652*/39-40-43 665**47-49-52	669*/40-40-43 684**53-55-58	673*/40-40-43 684**53-55-58
58A	667	667*/41-41-45 680**48-50-53	684*/41-41-45 701**54-56-60	689*/41-41-45 701**55-56-60
55A	683	682*/42-43-47 694**48-51-54	700*/43-43-47 718**56-58-61	702*/43-43-47 718**56-58-61
52	701	700*/43-44-48 711**49-51-55	718*/44-45-48 737**57-60-63	720*/45-45-48 737**58-60-63
49	720	718*/45-46-50 728**50-52-56	736*/46-46-50 755**58-61-64	741*/46-46-50 757**59-62-65
46	740	736*/46-48-52 746**51-53-57	755*/47-48-52 773**59-61-65	761*/47-48-52 778**61-64-68
43	759	755*/47-49-54 762**51-54-58	774*/49-50-54 790**59-61-65	780*/49-50-54 790**59-61-65
40	779	773*/49-51-55 777**50-53-57	793*/50-52-56 790**53-55-59	799*/50-52-56 790**53-55-59
37	799	788B/49-52-57	811*/50-52-57	817*/51-52-57
34	819	796B/49-52-57	828*/50-52-57	835*/50-52-57
31	841	807B/48-52-58	846*/49-52-58	853*/49-52-58
28	848	816B/48-52-58	853*/49-52-58	860*/49-52-58
25	849	824B/48-52-58	855*/49-52-58	862F/49-52-58
22	850	832B/48-51-58	856*/49-51-58	862F/49-51-58
19	851	835*/48-51-58	858*/49-51-58	862F/49-51-58
16	852	837*/48-51-58	859*/49-51-58	862F/49-51-58
13	853	839*/48-51-58	861*/49-51-58	862F/49-51-58
10	854	841*/48-51-58	862F/49-51-58	862F/49-51-58
5	855	843*/48-51-58	862F/49-51-58	862F/49-51-58
0	856	845*/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	847*/48-51-58	862F/49-51-58	862F/49-51-58
-10	858	849*/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 930 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	IS	3500 M LONG WITH 150 M OF CLEARWAY AND 100 M OF STOPWAY
	RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA	
	LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M	
21L	HT DIST OFFSET	HT DIST OFFSET
	10 210 0	43 630 0
	128 2300 0	151 2970 0
	558 24041 0	361 8835 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21L/D VTBD

LANGMAN JICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	651	642*/38-39-43	661*/40-40-43	666*/40-40-43	
		645**39-40-44	672**47-48-51	679**51-52-55	
58A	667	657*/39-40-44	676*/41-41-45	682*/41-41-45	
		658**41-42-46	686**48-49-52	694**52-53-56	
55A	683	672*/41-42-46	691*/43-43-47	698*/43-43-47	
			701**49-50-53	710**52-54-57	
52	701	688*/42-43-47	709*/44-45-48	715*/45-45-48	
			717**49-51-54	727**53-54-58	
49	720	704*/43-45-49	727*/46-46-50	734*/46-46-50	
			734**50-52-55	744**54-55-59	
46	740	721*/44-46-51	746*/47-48-52	753*/47-48-52	
			752**51-52-56	762**54-56-60	
43	759	738*/45-48-52	765*/49-50-54	771*/49-50-54	
			770**52-53-57	779**55-57-61	
40	779	755*/47-49-54	783*/50-52-56	790*/50-52-56	
			787**53-55-59	790**53-55-59	
37	799	772*/48-50-56	801*/50-52-57	808*/51-52-57	
34	819	788*/49-52-57	815*/50-52-57	824*/50-52-57	
31	841	801*/48-52-58	829*/49-52-58	838*/49-52-58	
28	848	806*/48-52-58	835*/49-52-58	844*/49-52-58	
25	849	809*/48-52-58	837*/49-52-58	847*/49-52-58	
22	850	811*/48-51-58	839*/49-51-58	849*/49-51-58	
19	851	813*/48-51-58	842*/49-51-58	851*/49-51-58	
16	852	815*/48-51-58	844*/49-51-58	853*/49-51-58	
13	853	817*/48-51-58	846*/49-51-58	855*/49-51-58	
10	854	819*/48-51-58	848*/49-51-58	857*/49-51-58	
5	855	822*/48-51-58	851*/49-51-58	861*/49-51-58	
0	856	825*/48-51-58	854*/49-51-58	862F/49-51-58	
-5	857	829*/48-51-58	858*/49-51-58	862F/49-51-58	
-10	858	832*/48-51-58	860*/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 900 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	IS	3115 M LONG WITH 150 M OF CLEARWAY AND 100 M OF STOPWAY						
RUNWAY	SLOPES	ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA						
RUNWAY	LINE-UP DISTANCES:	19 M FOR TODA, 35 M FOR ASDA	OBS	FROM LO	FT/M	HT	DIST	OFFSET
21L/D	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST
	10	210	0	43	630	0	85	1890
	128	2300	0	151	2970	0	361	8835
	558	24041	0					0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21R VTBD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

LANGMANJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	659*/39-40-43 684**52-55-58	672*/40-40-43 684**53-55-58	676*/40-40-43 684**53-55-58
58A	667	674*/41-41-45 701**54-56-60	688*/41-41-45 701**54-56-60	692*/41-41-45 701**55-56-60
55A	683	690*/42-43-47 717**55-58-61	704*/43-43-47 718**56-58-61	709*/43-43-47 718**56-58-61
52	701	709*/43-45-48 730**54-56-60	722*/44-45-48 737**58-60-63	727*/45-45-48 737**58-60-63
49	720	727*/45-46-50 743**52-55-59	742*/46-46-50 757**59-62-65	746*/46-46-50 757**59-62-65
46	740	747*/46-48-52 756**51-54-58	761*/47-48-52 778**61-64-68	766*/47-48-52 778**61-64-68
43	759	766*/48-50-54 768**50-53-57	781*/49-50-54 790**59-61-65	786*/49-50-54 790**59-61-65
40	779	785*/49-52-56 781**50-52-56	800*/50-52-56 790**53-55-59	805*/50-52-56 790**53-55-59
37	799	788B/49-52-57	819*/50-52-57	824*/51-52-57
34	819	796B/49-52-57	838*/50-52-57	844*/50-52-57
31	841	807B/48-52-58	858*/49-52-58	862F/49-52-58
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58
16	852	849B/48-51-58	862F/49-51-58	862F/49-51-58
13	853	855*/48-51-58	862F/49-51-58	862F/49-51-58
10	854	856*/48-51-58	862F/49-51-58	862F/49-51-58
5	855	858*/48-51-58	862F/49-51-58	862F/49-51-58
0	856	859*/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	860*/48-51-58	862F/49-51-58	862F/49-51-58
-10	858	861*/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 510 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3700 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21R 10 300 0 102 2375 0 295 6570 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21R/E VTBD

LANGMAN JICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	651	654*/39-40-43	668*/40-40-43	672*/40-40-43	
		672**47-49-52	684**53-55-58	684**53-55-58	
58A	667	669*/41-41-45	684*/41-41-45	688*/41-41-45	
		686**48-49-53	701**54-56-60	701**55-56-60	
55A	683	685*/42-43-47	700*/43-43-47	704*/43-43-47	
		701**48-50-54	718**56-58-61	718**56-58-61	
52	701	703*/43-45-48	718*/44-45-48	723*/45-45-48	
		718**49-51-55	737**58-60-63	737**58-60-63	
49	720	722*/45-46-50	737*/46-46-50	742*/46-46-50	
		735**50-52-56	756**59-61-65	757**59-62-65	
46	740	741*/46-48-52	757*/47-48-52	762*/47-48-52	
		753**50-53-57	775**59-62-66	778**61-64-68	
43	759	760*/48-50-54	776*/49-50-54	781*/49-50-54	
		768**51-53-57	790**59-61-65	790**59-61-65	
40	779	779*/49-52-56	795*/50-52-56	800*/50-52-56	
		781**50-52-56	790**53-55-59	790**53-55-59	
37	799	788B/49-52-57	814*/50-52-57	819*/51-52-57	
34	819	796B/49-52-57	833*/50-52-57	838*/50-52-57	
31	841	807B/48-52-58	853*/49-52-58	858*/49-52-58	
28	848	816B/48-52-58	860*/49-52-58	862F/49-52-58	
25	849	824B/48-52-58	861*/49-52-58	862F/49-52-58	
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58	
19	851	837*/48-51-58	862F/49-51-58	862F/49-51-58	
16	852	839*/48-51-58	862F/49-51-58	862F/49-51-58	
13	853	842*/48-51-58	862F/49-51-58	862F/49-51-58	
10	854	844*/48-51-58	862F/49-51-58	862F/49-51-58	
5	855	848*/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	852*/48-51-58	862F/49-51-58	862F/49-51-58	
-5	857	854*/48-51-58	862F/49-51-58	862F/49-51-58	
-10	858	855*/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 510 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3233 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY

RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
21R/E	10	300	0	102	2375	0	295	6570	0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21R/F/H VTBD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

LANGMANJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	626*/36-37-41	661*/40-40-43	666*/40-40-43
			658**42-42-46	666**45-46-49
58A	667	638*/37-38-42	674*/41-41-45	682*/41-41-45
			672**43-43-47	680**46-46-50
55A	683	650*/38-39-44	688*/43-43-47	698*/43-43-47
			686**44-44-48	694**47-47-51
52	701	664*/39-40-45	702*/44-45-48	715*/45-45-48
				711**47-48-52
49	720	678*/40-42-47	718*/45-46-50	731*/46-46-50
				728**48-49-53
46	740	693*/41-43-48	733*/46-47-52	747*/47-48-52
				745**49-50-54
43	759	708F/42-44-50	749*/47-49-53	763*/49-50-54
				762**50-51-55
40	779	721F/43-45-51	765*/48-50-55	779*/50-52-56
37	799	734F/44-46-52	781*/49-51-56	796*/51-52-57
34	819	747F/44-47-54	796*/50-52-57	806*/50-52-57
31	841	760F/45-49-55	806*/49-52-58	817*/49-52-58
28	848	767F/46-49-56	811*/49-52-58	822*/49-52-58
25	849	771F/46-49-56	813*/49-52-58	824*/49-52-58
22	850	774F/46-50-56	816*/49-51-58	827*/49-51-58
19	851	778F/47-50-57	818*/49-51-58	829*/49-51-58
16	852	782F/47-51-57	821*/49-51-58	832*/49-51-58
13	853	786F/47-51-57	823*/49-51-58	834*/49-51-58
10	854	789F/48-51-58	826*/49-51-58	837*/49-51-58
5	855	796F/48-51-58	830*/49-51-58	841*/49-51-58
0	856	800*/48-51-58	834*/49-51-58	846*/49-51-58
-5	857	804*/48-51-58	838*/49-51-58	850*/49-51-58
-10	858	808*/48-51-58	843*/49-51-58	854*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 480 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2579 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21R/F/H 10 300 0 102 2375 0 295 6570 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01L VTBS

		AIR COND AUTO	ANTI-ICE OFF	SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	651	699*/39-40-43	710*/40-40-43	710*/40-40-43
		684**52-55-58	684**53-55-58	684**53-55-58
58A	667	715*/41-41-45	721*/41-41-45	722*/41-41-45
		701**54-56-60	701**54-56-60	701**55-56-60
55A	683	732*/42-43-47	739*/43-43-47	740*/43-43-47
		717**55-58-61	718**56-58-61	718**56-58-61
52	701	750*/43-45-48	760*/44-45-48	760*/45-45-48
		730**54-56-60	737**58-60-63	737**58-60-63
49	720	769*/45-46-50	781*/46-46-50	781*/46-46-50
		743**52-55-59	757**59-62-65	757**59-62-65
46	740	788*/46-48-52	802*/47-48-52	803*/47-48-52
		756**51-54-58	778**61-64-68	778**61-64-68
43	759	794B/48-50-54	823*/49-50-54	824*/49-50-54
		768**50-53-57	790**59-61-65	790**59-61-65
40	779	785B/49-52-56	845*/50-52-56	845*/50-52-56
		781**50-52-56	790**53-55-59	790**53-55-59
37	799	788B/49-52-57	862F/50-52-57	862F/51-52-57
34	819	796B/49-52-57	862F/50-52-57	862F/50-52-57
31	841	807B/48-52-58	862F/49-52-58	862F/49-52-58
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58
16	852	849B/48-51-58	862F/49-51-58	862F/49-51-58
13	853	857B/48-51-58	862F/49-51-58	862F/49-51-58
10	854	862F/48-51-58	862F/49-51-58	862F/49-51-58
5	855	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	858	862F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3700 M LONG WITH 1100 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

01L	30	1324	0				
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ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01L/E15 VTBS

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	-10	0	10	
C	100KG				
61A	651	627F/36-37-41	673F/40-40-43	690F/40-40-43	
			661**43-44-47	668**46-47-50	
58A	667	638F/37-38-42	684F/41-41-45	701F/41-41-45	
			675**44-44-48	682**47-47-51	
55A	683	648F/38-39-44	695F/43-43-47	712F/43-43-47	
			689**45-45-49	696**47-48-52	
52	701	661F/39-40-45	708F/44-45-48	724F/45-45-48	
			705**45-46-50	712**48-49-52	
49	720	674F/40-41-46	721F/46-46-50	737F/46-46-50	
				729**49-49-53	
46	740	687F/41-42-48	735F/47-48-52	751F/47-48-52	
				746**49-50-54	
43	759	700F/41-43-49	749F/47-49-53	765F/49-50-54	
				762**50-51-55	
40	779	713F/42-45-50	762F/48-50-55	779F/50-52-56	
37	799	726F/43-46-52	776F/49-51-56	793F/51-52-57	
34	819	738F/44-47-53	790F/50-52-57	808F/50-52-57	
31	841	751F/44-48-54	804F/49-52-58	822F/49-52-58	
28	848	758F/45-48-55	811F/49-52-58	829F/49-52-58	
25	849	762F/45-49-55	815F/49-52-58	833F/49-52-58	
22	850	766F/45-49-56	819F/49-51-58	838F/49-51-58	
19	851	769F/46-49-56	823F/49-51-58	842F/49-51-58	
16	852	773F/46-50-56	827F/49-51-58	846F/49-51-58	
13	853	777F/47-50-57	831F/49-51-58	850F/49-51-58	
10	854	781F/47-50-57	836F/49-51-58	854F/49-51-58	
5	855	787F/48-51-57	843F/49-51-58	862F/49-51-58	
0	856	793F/48-51-58	850F/49-51-58	862F/49-51-58	
-5	857	800F/48-51-58	857F/49-51-58	862F/49-51-58	
-10	858	806F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2670 M LONG WITH 1100 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01L/E15 30 1324 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01L/E19 VTBS

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
OAT	CLIMB	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C	100KG	-10 0 10		
61A	651	697*/39-40-43 684**52-55-58	710*/40-40-43 684**53-55-58	710*/40-40-43 684**53-55-58
58A	667	713*/41-41-45 699**53-55-59	721*/41-41-45 701**54-56-60	722*/41-41-45 701**55-56-60
55A	683	729*/42-43-47 714**53-56-59	739*/43-43-47 718**56-58-61	740*/43-43-47 718**56-58-61
52	701	747*/43-45-48 730**54-56-60	760*/44-45-48 737**58-60-63	760*/45-45-48 737**58-60-63
49	720	766*/45-46-50 743**52-55-59	781*/46-46-50 757**59-62-65	781*/46-46-50 757**59-62-65
46	740	785*/46-48-52 756**51-54-58	802*/47-48-52 778**61-64-68	803*/47-48-52 778**61-64-68
43	759	794B/48-50-54 768**50-53-57	822*/49-50-54 790**59-61-65	824*/49-50-54 790**59-61-65
40	779	785B/49-52-56 781**50-52-56	842*/50-52-56 790**53-55-59	845*/50-52-56 790**53-55-59
37	799	788B/49-52-57	861*/50-52-57	862F/51-52-57
34	819	796B/49-52-57	862F/50-52-57	862F/50-52-57
31	841	807B/48-52-58	862F/49-52-58	862F/49-52-58
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58
16	852	849B/48-51-58	862F/49-51-58	862F/49-51-58
13	853	857B/48-51-58	862F/49-51-58	862F/49-51-58
10	854	862F/48-51-58	862F/49-51-58	862F/49-51-58
5	855	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	858	862F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3590 M LONG WITH 1100 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01L/E19 30 1324 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01R VTBS

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
737-800	CFM56-7B26		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 651	646*/38-39-43 668**50-53-56	661*/40-40-43 684**53-55-58	666*/40-40-43 684**53-55-58
58A 667	661*/40-41-44 683**51-54-58	676*/41-41-45 701**54-56-60	681*/41-41-45 701**55-56-60
55A 683	676*/41-42-46 699**53-56-59	692*/43-43-47 718**56-58-61	698*/43-43-47 718**56-58-61
52 701	694*/43-44-48 717**54-58-61	710*/44-45-48 736**57-60-63	716*/45-45-48 737**58-60-63
49 720	712*/44-45-50 733**54-57-61	729*/46-46-50 756**59-62-65	735*/46-46-50 757**59-62-65
46 740	731*/45-47-51 748**52-55-59	748*/47-48-52 775**61-64-67	754*/47-48-52 778**61-64-68
43 759	750*/47-49-53 761**51-54-58	767*/49-50-54 790**59-61-65	773*/49-50-54 790**59-61-65
40 779	768*/48-50-55 775**50-53-58	786*/50-52-56 790**53-55-59	792*/50-52-56 790**53-55-59
37 799	787*/49-52-57	805*/50-52-57	811*/51-52-57
34 819	796B/49-52-57	823*/50-52-57	829*/50-52-57
31 841	807B/48-52-58	842*/49-52-58	848*/49-52-58
28 848	816B/48-52-58	849*/49-52-58	856*/49-52-58
25 849	824B/48-52-58	851*/49-52-58	857*/49-52-58
22 850	832B/48-51-58	852*/49-51-58	858*/49-51-58
19 851	834*/48-51-58	853*/49-51-58	860*/49-51-58
16 852	835*/48-51-58	855*/49-51-58	861*/49-51-58
13 853	837*/48-51-58	856*/49-51-58	862F/49-51-58
10 854	838*/48-51-58	857*/49-51-58	862F/49-51-58
5 855	840*/48-51-58	859*/49-51-58	862F/49-51-58
0 856	841*/48-51-58	861*/49-51-58	862F/49-51-58
-5 857	843*/48-51-58	862F/49-51-58	862F/49-51-58
-10 858	844*/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01R 154 3916 0 253 4164 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01R/B11 VTBS

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

SUWANNAPUJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	651	625*/36-37-41 629**38-39-43	642*/39-39-43 656**45-47-50	648*/40-40-43 665**48-49-52
58A	667	640*/37-38-42 643**38-40-44	657*/40-40-44 670**46-47-51	663*/41-41-45 679**49-50-53
55A	683	655*/39-40-44 656**39-41-45	673*/42-42-46 684**47-48-52	679*/42-42-46 694**49-51-54
52	701	671*/40-41-46	690*/43-43-47 700**48-49-53	696*/44-44-48 710**50-51-55
49	720	686F/41-43-47	708*/44-45-49 717**48-50-54	714*/45-46-50 727**51-52-56
46	740	700F/42-44-49	727*/46-47-51 735**49-51-55	733*/47-47-52 745**52-53-57
43	759	714F/43-45-50	745*/47-48-53 752**50-51-56	751*/48-49-53 762**52-54-58
40	779	728F/44-46-52	763*/48-50-55 769**50-52-57	770*/49-51-55 779**53-55-59
37	799	741F/44-47-53	782*/50-52-56 786**51-53-58	789*/51-52-57 790**51-53-57
34	819	754F/45-48-54	800*/50-52-57	807*/50-52-57
31	841	767F/46-49-56	818*/49-52-58	825*/49-52-58
28	848	774F/46-50-56	825*/49-52-58	832*/49-52-58
25	849	778F/47-50-57	826*/49-52-58	834*/49-52-58
22	850	782F/47-51-57	828*/49-51-58	835*/49-51-58
19	851	785F/47-51-57	829*/49-51-58	836*/49-51-58
16	852	789F/48-51-58	830*/49-51-58	838*/49-51-58
13	853	793F/48-51-58	832*/49-51-58	839*/49-51-58
10	854	797F/48-51-58	833*/49-51-58	840*/49-51-58
5	855	804F/48-51-58	835*/49-51-58	842*/49-51-58
0	856	810F/48-51-58	837*/49-51-58	844*/49-51-58
-5	857	817F/48-51-58	839*/49-51-58	846*/49-51-58
-10	858	818*/48-51-58	840*/49-51-58	847*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
01R/B11 154 3916 0 253 4164 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01R/B12 VTBS

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			SUWANNA PUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019	
737-800 CFM56-7B26		*A* INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND) C 100KG -10 0 10				
61A	651	644*/38-39-43 665**50-52-56	659*/40-40-43 684**53-55-58	664*/40-40-43 684**53-55-58		
58A	667	659*/40-41-44 681**51-54-57	675*/41-41-45 700**54-56-59	680*/41-41-45 701**55-56-60		
55A	683	675*/41-42-46 697**53-56-59	691*/43-43-47 716**56-58-61	696*/43-43-47 718**56-58-61		
52	701	692*/42-44-48 714**54-57-61	709*/44-45-48 734**57-60-63	714*/45-45-48 737**58-60-63		
49	720	710*/44-45-49 731**54-57-61	727*/46-46-50 753**59-62-65	733*/46-46-50 757**59-62-65		
46	740	729*/45-47-51 746**53-56-60	747*/47-48-52 773**60-63-67	752*/47-48-52 778**61-64-68		
43	759	748*/46-49-53 760**51-54-59	766*/49-50-54 790**60-63-67	771*/49-50-54 790**59-61-65		
40	779	766*/48-50-55 774**50-53-58	785*/50-52-56 790**53-55-59	790*/50-52-56 790**53-55-59		
37	799	785*/49-52-57 786**49-52-57	803*/50-52-57	809*/51-52-57		
34	819	796B/49-52-57	821*/50-52-57	827*/50-52-57		
31	841	807B/48-52-58	840*/49-52-58	846*/49-52-58		
28	848	816B/48-52-58	847*/49-52-58	854*/49-52-58		
25	849	824B/48-52-58	849*/49-52-58	855*/49-52-58		
22	850	831*/48-51-58	850*/49-51-58	857*/49-51-58		
19	851	832*/48-51-58	851*/49-51-58	858*/49-51-58		
16	852	833*/48-51-58	853*/49-51-58	859*/49-51-58		
13	853	835*/48-51-58	854*/49-51-58	860*/49-51-58		
10	854	836*/48-51-58	855*/49-51-58	862*/49-51-58		
5	855	838*/48-51-58	857*/49-51-58	862F/49-51-58		
0	856	839*/48-51-58	859*/49-51-58	862F/49-51-58		
-5	857	841*/48-51-58	860*/49-51-58	862F/49-51-58		
-10	858	842*/48-51-58	862*/49-51-58	862F/50-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3890 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01R/B12 154 3916 0 253 4164 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19L VTBS

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

SUWANNAPUJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	701*/39-40-43 684**52-55-58	710*/40-40-43 684**53-55-58	710*/40-40-43 684**53-55-58
58A	667	717*/41-41-45 701**54-56-60	721*/41-41-45 701**54-56-60	722*/41-41-45 701**55-56-60
55A	683	734*/42-43-47 717**55-58-61	739*/43-43-47 718**56-58-61	740*/43-43-47 718**56-58-61
52	701	752*/43-45-48 730**54-56-60	760*/44-45-48 737**58-60-63	760*/45-45-48 737**58-60-63
49	720	771*/45-46-50 743**52-55-59	781*/46-46-50 757**59-62-65	781*/46-46-50 757**59-62-65
46	740	791*/46-48-52 756**51-54-58	802*/47-48-52 778**61-64-68	803*/47-48-52 778**61-64-68
43	759	794B/48-50-54 768**50-53-57	823*/49-50-54 790**59-61-65	824*/49-50-54 790**59-61-65
40	779	785B/49-52-56 781**50-52-56	845*/50-52-56 790**53-55-59	845*/50-52-56 790**53-55-59
37	799	788B/49-52-57	862F/50-52-57	862F/51-52-57
34	819	796B/49-52-57	862F/50-52-57	862F/50-52-57
31	841	807B/48-52-58	862F/49-52-58	862F/49-52-58
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58
16	852	849B/48-51-58	862F/49-51-58	862F/49-51-58
13	853	857B/48-51-58	862F/49-51-58	862F/49-51-58
10	854	862F/48-51-58	862F/49-51-58	862F/49-51-58
5	855	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	858	862F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 550 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
19L 30 1109 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19L/B2 VTBS

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
737-800		CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10	0	10
61A	651	698*/39-40-43	710*/40-40-43	710*/40-40-43	
		684**52-55-58	684**53-55-58	684**53-55-58	
58A	667	714*/41-41-45	721*/41-41-45	722*/41-41-45	
		701**54-56-60	701**54-56-60	701**55-56-60	
55A	683	731*/42-43-47	739*/43-43-47	740*/43-43-47	
		717**55-58-61	718**56-58-61	718**56-58-61	
52	701	749*/43-45-48	760*/44-45-48	760*/45-45-48	
		730**54-56-60	737**58-60-63	737**58-60-63	
49	720	768*/45-46-50	781*/46-46-50	781*/46-46-50	
		743**52-55-59	757**59-62-65	757**59-62-65	
46	740	787*/46-48-52	802*/47-48-52	803*/47-48-52	
		756**51-54-58	778**61-64-68	778**61-64-68	
43	759	794B/48-50-54	823*/49-50-54	824*/49-50-54	
		768**50-53-57	790**59-61-65	790**59-61-65	
40	779	785B/49-52-56	844*/50-52-56	845*/50-52-56	
		781**50-52-56	790**53-55-59	790**53-55-59	
37	799	788B/49-52-57	862F/50-52-57	862F/51-52-57	
34	819	796B/49-52-57	862F/50-52-57	862F/50-52-57	
31	841	807B/48-52-58	862F/49-52-58	862F/49-52-58	
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58	
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58	
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58	
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58	
16	852	849B/48-51-58	862F/49-51-58	862F/49-51-58	
13	853	857B/48-51-58	862F/49-51-58	862F/49-51-58	
10	854	862F/48-51-58	862F/49-51-58	862F/49-51-58	
5	855	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	857	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	858	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3870 M LONG WITH 550 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19L/B2 30 1109 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19L/B3 VTBS

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

SUWANNAPUJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	662F/39-40-43 657**41-42-45	691*/40-40-43 677**49-51-54	697*/40-40-43 682**52-54-57
58A	667	674F/41-41-45 670**42-43-46	707*/41-41-45 691**50-51-54	713*/41-41-45 697**53-54-57
55A	683	686F/42-43-47 684**42-43-47	723*/43-43-47 706**50-52-55	729*/43-43-47 712**53-55-58
52	701	699F/43-44-48	741*/44-45-48 722**51-53-56	747*/45-45-48 729**54-55-59
49	720	712F/44-45-50	758F/46-46-50 739**52-53-57	766*/46-46-50 746**54-56-60
46	740	726F/45-47-51	773F/47-48-52 756**52-54-58	784*/47-48-52 763**55-57-61
43	759	739F/46-48-52	787F/49-50-54 773**53-55-59	803*/49-50-54 780**56-58-61
40	779	753F/46-49-54	802F/50-52-56 790**53-55-59	819F/50-52-56 790**53-55-59
37	799	766F/47-50-55	817F/50-52-57	834F/51-52-57
34	819	780F/48-51-56	831F/50-52-57	849F/50-52-57
31	841	794F/48-52-58	846F/49-52-58	862F/49-52-58
28	848	801F/48-52-58	854F/49-52-58	862F/49-52-58
25	849	805F/48-52-58	858F/49-52-58	862F/49-52-58
22	850	809F/48-51-58	862F/49-51-58	862F/49-51-58
19	851	812F/48-51-58	862F/49-51-58	862F/49-51-58
16	852	816F/48-51-58	862F/49-51-58	862F/49-51-58
13	853	820F/48-51-58	862F/49-51-58	862F/49-51-58
10	854	824F/48-51-58	862F/49-51-58	862F/49-51-58
5	855	831F/48-51-58	862F/49-51-58	862F/49-51-58
0	856	838F/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	845F/48-51-58	862F/49-51-58	862F/49-51-58
-10	858	852F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2970 M LONG WITH 550 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
19L/B3 30 1109 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R VTBS

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
737-800		CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10	0	10
61A	651	666*/39-40-43	680*/40-40-43	684*/40-40-43	
		684**52-55-58	684**53-55-58	684**53-55-58	
58A	667	682*/41-41-45	696*/41-41-45	700*/41-41-45	
		701**54-56-60	701**54-56-60	701**55-56-60	
55A	683	698*/42-43-47	712*/43-43-47	717*/43-43-47	
		717**55-58-61	718**56-58-61	718**56-58-61	
52	701	716*/43-45-48	730*/44-45-48	736*/45-45-48	
		730**54-56-60	737**58-60-63	737**58-60-63	
49	720	735*/45-46-50	750*/46-46-50	755*/46-46-50	
		743**52-55-59	757**59-62-65	757**59-62-65	
46	740	754*/46-48-52	769*/47-48-52	775*/47-48-52	
		756**51-54-58	778**61-64-68	778**61-64-68	
43	759	773*/48-50-54	789*/49-50-54	794*/49-50-54	
		768**50-53-57	790**59-61-65	790**59-61-65	
40	779	785B/49-52-56	808*/50-52-56	814*/50-52-56	
		781**50-52-56	790**53-55-59	790**53-55-59	
37	799	788B/49-52-57	827*/50-52-57	833*/51-52-57	
34	819	796B/49-52-57	846*/50-52-57	852*/50-52-57	
31	841	807B/48-52-58	862F/49-52-58	862F/49-52-58	
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58	
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58	
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58	
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58	
16	852	849B/48-51-58	862F/49-51-58	862F/49-51-58	
13	853	857B/48-51-58	862F/49-51-58	862F/49-51-58	
10	854	862F/48-51-58	862F/49-51-58	862F/49-51-58	
5	855	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	857	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	858	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3700 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19R 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R/D4 VTBS

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

SUWANNAPUJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	659*/39-40-43 669**46-47-50	674*/40-40-43 684**53-55-58	678*/40-40-43 684**53-55-58
58A	667	675*/41-41-45 683**46-48-51	689*/41-41-45 701**54-56-60	694*/41-41-45 701**55-56-60
55A	683	691*/42-43-47 698**47-49-52	706*/43-43-47 716**55-57-60	710*/43-43-47 718**56-58-61
52	701	709*/43-45-48 714**48-49-53	724*/44-45-48 733**56-58-61	729*/45-45-48 737**58-60-63
49	720	727*/45-46-50 730**48-50-54	743*/46-46-50 751**56-58-62	748*/46-46-50 756**59-61-65
46	740	746*/46-48-52 747**49-51-55	762*/47-48-52 769**57-59-63	768*/47-48-52 775**59-62-66
43	759	765*/48-50-54 764**49-51-56	781*/49-50-54 786**57-60-64	787*/49-50-54 790**59-61-65
40	779	782F/49-52-56 781**50-52-56	801*/50-52-56 790**53-55-59	806*/50-52-56 790**53-55-59
37	799	788B/49-52-57	819*/50-52-57	825*/51-52-57
34	819	796B/49-52-57	838*/50-52-57	844*/50-52-57
31	841	807B/48-52-58	857*/49-52-58	862F/49-52-58
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58
16	852	846F/48-51-58	862F/49-51-58	862F/49-51-58
13	853	850F/48-51-58	862F/49-51-58	862F/49-51-58
10	854	853*/48-51-58	862F/49-51-58	862F/49-51-58
5	855	855*/48-51-58	862F/49-51-58	862F/49-51-58
0	856	857*/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	859*/48-51-58	862F/49-51-58	862F/49-51-58
-10	858	860*/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3212 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19R/D4 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R/E2 VTBS

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF SUWANNAPUJICHANG
 737-800 CFM56-7B26 MG/INTERNATIONAL
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	651	665*/39-40-43	678*/40-40-43	683*/40-40-43	
		684**52-55-58	684**53-55-58	684**53-55-58	
58A	667	680*/41-41-45	694*/41-41-45	699*/41-41-45	
		699**53-55-59	701**54-56-60	701**55-56-60	
55A	683	696*/42-43-47	711*/43-43-47	716*/43-43-47	
		714**53-56-59	718**56-58-61	718**56-58-61	
52	701	714*/43-45-48	729*/44-45-48	734*/45-45-48	
		730**54-56-60	737**58-60-63	737**58-60-63	
49	720	733*/45-46-50	748*/46-46-50	753*/46-46-50	
		743**52-55-59	757**59-62-65	757**59-62-65	
46	740	752*/46-48-52	768*/47-48-52	773*/47-48-52	
		756**51-54-58	778**61-64-68	778**61-64-68	
43	759	771*/48-50-54	787*/49-50-54	792*/49-50-54	
		768**50-53-57	790**59-61-65	790**59-61-65	
40	779	785B/49-52-56	807*/50-52-56	812*/50-52-56	
		781**50-52-56	790**53-55-59	790**53-55-59	
37	799	788B/49-52-57	826*/50-52-57	831*/51-52-57	
34	819	796B/49-52-57	844*/50-52-57	850*/50-52-57	
31	841	807B/48-52-58	862F/49-52-58	862F/49-52-58	
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58	
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58	
22	850	832B/48-51-58	862F/49-51-58	862F/49-51-58	
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58	
16	852	849B/48-51-58	862F/49-51-58	862F/49-51-58	
13	853	857B/48-51-58	862F/49-51-58	862F/49-51-58	
10	854	861*/48-51-58	862F/49-51-58	862F/49-51-58	
5	855	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	857	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	858	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3590 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19R/E2 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R/E3 VTBS

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

SUWANNAPUJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	657*/39-40-43	671*/40-40-43	676*/40-40-43
		661**42-44-47	680**51-52-55	684**53-55-58
58A	667	672*/41-41-45	687*/41-41-45	692*/41-41-45
		675**43-44-48	694**51-53-56	700**54-56-59
55A	683	688*/42-43-47	703*/43-43-47	708*/43-43-47
		689**44-45-49	709**52-53-57	715**55-56-60
52	701	706*/43-45-48	721*/44-45-48	727*/45-45-48
		704**45-46-50	726**52-54-58	732**55-57-60
49	720	721F/45-46-50	740*/46-46-50	746*/46-46-50
			742**53-55-58	749**56-58-61
46	740	735F/46-48-52	760*/47-48-52	765*/47-48-52
			760**54-56-59	767**56-58-62
43	759	748F/47-49-53	779*/49-50-54	784*/49-50-54
			777**54-56-60	784**57-59-63
40	779	762F/47-50-55	798*/50-52-56	804*/50-52-56
			790**53-55-59	790**53-55-59
37	799	776F/48-51-56	817*/50-52-57	822*/51-52-57
34	819	789F/49-52-57	835*/50-52-57	841*/50-52-57
31	841	803F/48-52-58	854*/49-52-58	860*/49-52-58
28	848	810F/48-52-58	861*/49-52-58	862F/49-52-58
25	849	814F/48-52-58	862F/49-52-58	862F/49-52-58
22	850	818F/48-51-58	862F/49-51-58	862F/49-51-58
19	851	822F/48-51-58	862F/49-51-58	862F/49-51-58
16	852	826F/48-51-58	862F/49-51-58	862F/49-51-58
13	853	830F/48-51-58	862F/49-51-58	862F/49-51-58
10	854	834F/48-51-58	862F/49-51-58	862F/49-51-58
5	855	841F/48-51-58	862F/49-51-58	862F/49-51-58
0	856	848F/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	854F/48-51-58	862F/49-51-58	862F/49-51-58
-10	858	856*/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3043 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
19R/E3 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R/E5 VTBS

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019		
737-800	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10
61A	651	640F/38-39-42	668*/40-40-43 667**46-46-49	672*/40-40-43 674**48-49-52	
58A	667	651F/39-40-44	683*/41-41-45 681**46-47-50	688*/41-41-45 688**49-50-53	
55A	683	663F/40-41-45	699*/43-43-47 696**47-48-51	704*/43-43-47 702**50-51-54	
52	701	675F/40-42-46	717*/44-45-48 711**48-48-52	723*/45-45-48 718**50-51-55	
49	720	688F/41-43-48	735F/46-46-50 728**48-49-53	741*/46-46-50 735**51-52-56	
46	740	702F/42-44-49	749F/47-48-52 745**49-50-54	761*/47-48-52 753**51-53-56	
43	759	715F/43-45-50	763F/49-50-54 761**49-50-55	780F/49-50-54 770**52-53-57	
40	779	728F/44-46-52	777F/50-51-56	794F/50-52-56 787**52-54-58	
37	799	741F/44-47-53	791F/50-52-57	808F/51-52-57	
34	819	754F/45-48-54	805F/50-52-57	823F/50-52-57	
31	841	767F/46-49-56	820F/49-52-58	838F/49-52-58	
28	848	774F/46-50-56	827F/49-52-58	845F/49-52-58	
25	849	778F/47-50-57	831F/49-52-58	850F/49-52-58	
22	850	782F/47-51-57	835F/49-51-58	854F/49-51-58	
19	851	785F/47-51-57	840F/49-51-58	858F/49-51-58	
16	852	789F/48-51-58	844F/49-51-58	862F/49-51-58	
13	853	793F/48-51-58	848F/49-51-58	862F/49-51-58	
10	854	797F/48-51-58	852F/49-51-58	862F/49-51-58	
5	855	804F/48-51-58	859F/49-51-58	862F/49-51-58	
0	856	810F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	857	817F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	858	823F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2780 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19R/E5 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3031 FT

RUNWAY 01 ZBCZ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

WANGCUNJICHNAG

CZ/NORTH CHINA

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	589	530*/25-26-30 535**28-30-34	547*/28-28-32 558**36-37-41	553*/29-29-33 566**38-40-43
58A	604	543*/26-27-32 547**29-30-35	560*/29-29-34 571**36-38-42	566*/30-30-34 579**39-40-44
55A	619	556*/27-29-33 559**29-31-36	574*/31-31-35 584**37-39-43	580*/32-32-36 592**40-41-45
52A	635	569*/29-30-35 572**30-32-36	588*/32-32-37 597**38-39-43	594*/33-33-38 605**40-42-46
49A	651	583*/30-31-37 584**31-32-37	602*/33-34-39 610**38-40-44	608*/35-35-39 619**41-42-47
46	668	597F/31-33-38	617*/35-35-40 624**39-41-45	623*/36-36-41 633**42-43-47
43	685	608F/32-34-40	632*/36-37-42 638**40-41-46	638*/37-38-43 647**42-44-48
40	703	619F/33-35-41	647*/38-39-44 652**41-42-47	654*/39-39-44 662**43-45-49
37	722	630F/34-36-42	663*/39-40-45 668**41-43-48	670*/40-41-46 677**44-45-50
34	741	642F/35-37-44	679*/40-42-47 683**42-44-49	687*/42-42-48 693**45-46-51
31	757	652F/36-38-45	693*/42-43-49 696**43-44-50	700*/43-44-49 706**45-47-52
28	771	661F/36-39-46	706*/42-44-50 707**43-45-51	713*/44-45-50 718**46-47-53
25	782	669F/37-40-47	716*/43-45-51	723*/44-46-51 727**46-48-53
22	786	674F/37-40-47	720*/44-45-51 721**44-46-52	727*/45-46-52 732**47-48-54
19	787	677F/38-40-47	721*/44-45-51 723**45-46-52	728*/45-46-52 733**47-49-55
16	788	681F/38-41-48	722*/44-45-51 725**45-47-53	729*/45-46-52 735**48-50-55
13	788	684F/39-41-48	723*/44-46-51 727**46-48-53	730*/45-46-52 737**48-50-56
10	789	688F/39-42-48	724*/44-46-52 728**46-48-54	731*/45-46-52 739**49-51-56
5	790	693F/40-42-49	725*/44-46-52 731**47-49-55	733*/45-47-52 742**50-52-57
0	790	700F/41-43-49	727*/45-46-52 735**48-51-56	735*/46-47-52 745**51-53-59
-5	791	705*/41-44-50	728*/45-46-52 738**49-52-57	736*/46-47-53 749**52-54-60
-10	792	706*/41-44-50	730*/45-46-52 741**50-53-58	737*/46-47-53 752**53-56-61

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595
 MINIMUM FLAP RETRACTION HEIGHT IS 540 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2440 M LONG WITH 440 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.08 PERCENT FOR TODA AND 0.08 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 154 3320 0 374 4394 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3031 FT

RUNWAY 19 ZBCZ

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	WANGCUNJICHNAG CZ/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 589	552F/28-29-33	591*/33-33-36 591**34-34-37	596*/33-33-36 597**37-37-40
58A 604	562F/29-30-34	603F/35-35-38	611*/35-35-38 610**37-37-40
55A 619	572F/30-31-35	613F/36-36-39	625*/37-37-40 624**38-38-41
52A 635	582F/30-32-36	624F/37-37-41	639F/38-38-42 637**39-39-42
49A 651	592F/31-33-38	635F/38-38-42	649F/40-40-43
46 668	603F/32-34-39	647F/39-39-43	662F/41-41-45
43 685	614F/33-35-40	659F/39-40-45	675F/42-42-46
40 703	626F/34-36-42	671F/40-41-46	687F/43-43-47
37 722	637F/35-37-43	684F/41-42-47	701F/43-44-49
34 741	649F/36-38-44	697F/42-44-49	713F/44-45-50
31 757	659F/36-39-46	708F/43-44-50	724F/45-46-51
28 771	669F/37-40-47	718F/44-45-51	734F/46-47-52
25 782	677F/38-41-47	726F/44-46-52	742F/46-48-53
22 786	682F/38-41-48	731F/45-46-52	748F/47-48-54
19 787	685F/39-41-48	734F/45-47-52	751F/47-49-54
16 788	689F/39-42-48	738F/45-47-53	755F/47-49-54
13 788	692F/39-42-49	742F/46-48-53	759F/48-49-54
10 789	696F/40-43-49	745F/46-48-53	763F/48-50-55
5 790	702F/41-43-50	752F/47-49-54	769F/49-50-55
0 790	707F/41-44-50	758F/48-49-54	776F/50-51-56
-5 791	713F/42-44-51	764F/48-50-55	782F/50-52-56
-10 792	719F/43-45-51	771F/49-51-56	789F/51-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2440 M LONG WITH 200 M OF CLEARWAY AND 100 M OF STOPWAY
 RUNWAY SLOPES ARE -0.08 PERCENT FOR TODA AND -0.08 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19 157 3285 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 56 FT

RUNWAY 08

ZBDH

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	BEIDAHE JICHANG BDH/NORTH CHINA DATED 10-JUN-2019
737-800	CFM56-7B26		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C	100KG	-10 0 10	
61A	650	614F/34-35-40	654F/40-40-43 668F/40-40-43
			652**41-41-44 660**43-43-47
58A	666	625F/35-36-41	666F/41-41-45 680F/41-41-45
			674**44-44-48
55A	682	637F/36-38-42	678F/42-42-46 693F/43-43-47
			688**45-45-49
52	700	649F/37-39-44	692F/43-44-48 707F/44-44-48
			704**46-46-50
49	719	663F/38-40-45	706F/44-45-49 721F/46-46-50
			720**46-47-51
46	739	676F/39-41-47	721F/45-46-51 736F/47-48-52
43	758	690F/40-42-48	735F/46-47-52 751F/48-49-53
40	778	703F/41-43-50	750F/47-49-54 766F/49-50-55
37	798	715F/42-44-51	765F/48-50-55 782F/50-51-56
34	818	728F/42-45-52	779F/49-51-56 797F/50-52-57
31	839	741F/43-47-53	793F/49-52-58 811F/49-52-58
28	847	748F/44-47-54	800F/49-52-58 818F/49-52-58
25	849	751F/44-47-54	804F/49-52-58 823F/49-52-58
22	850	755F/44-48-55	808F/49-52-58 827F/49-52-58
19	850	759F/45-48-55	812F/49-52-58 831F/49-52-58
16	851	762F/45-49-55	816F/49-51-58 835F/49-51-58
13	852	766F/45-49-56	820F/49-51-58 839F/49-51-58
10	853	770F/46-49-56	825F/49-51-58 844F/49-51-58
5	854	776F/46-50-57	832F/49-51-58 851F/49-51-58
0	855	783F/47-51-57	839F/49-51-58 858F/49-51-58
-5	856	789F/48-51-58	846F/49-51-58 862F/49-51-58
-10	857	795F/48-51-58	853F/49-51-58 862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.07 PERCENT FOR TODA AND -0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 08 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 56 FT

RUNWAY 26 ZBDH

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	BEIDAIHE JICHANG BDH/NORTH CHINA DATED 10-JUN-2019
737-800	CFM56-7B26		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 650	612F/34-35-39	652F/40-40-43	666F/40-40-43 659**43-43-46
58A 666	623F/35-36-41	664F/41-41-45	678F/41-41-45 673**44-44-47
55A 682	635F/36-37-42	676F/42-42-46	691F/43-43-47 687**45-45-48
52 700	647F/37-39-44	690F/43-43-47	705F/44-44-48 703**45-45-49
49 719	661F/38-40-45	704F/44-45-49	719F/46-46-50
46 739	675F/39-41-47	718F/45-46-50	734F/47-47-52
43 758	688F/40-42-48	733F/46-47-52	749F/48-49-53
40 778	701F/41-43-49	748F/47-48-53	764F/49-50-55
37 798	714F/42-44-51	763F/48-50-55	779F/50-51-56
34 818	726F/42-45-52	777F/49-51-56	795F/50-52-57
31 839	739F/43-46-53	791F/49-52-58	809F/50-52-58
28 847	746F/44-47-54	798F/49-52-58	816F/49-52-58
25 849	750F/44-47-54	802F/49-52-58	820F/49-52-58
22 850	753F/44-48-55	806F/49-52-58	825F/49-52-58
19 850	757F/45-48-55	810F/49-52-58	829F/49-52-58
16 851	760F/45-48-55	814F/49-51-58	833F/49-51-58
13 852	764F/45-49-56	818F/49-51-58	837F/49-51-58
10 853	768F/46-49-56	822F/49-51-58	841F/49-51-58
5 854	774F/46-50-56	829F/49-51-58	848F/49-51-58
0 855	781F/47-50-57	837F/49-51-58	856F/50-51-58
-5 856	787F/48-51-57	843F/49-51-58	862F/50-51-58
-10 857	793F/48-51-58	850F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.07 PERCENT FOR TODA AND 0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 26 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3556 FT

RUNWAY 08

ZBHH

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAITAJICHANG

HHHT/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	579	647F/32-32-35 607**45-46-49	686F/32-32-35 608**46-46-49	698F/32-32-35 608**46-46-49
58A	594	658F/34-34-37 621**46-47-50	700F/34-34-37 623**47-48-51	712F/34-34-37 623**47-48-51
55A	609	671F/35-36-39 636**46-48-51	714F/36-36-39 639**49-50-53	726F/36-36-39 639**49-50-53
52A	624	683F/37-37-41 650**47-49-52	726F/37-37-41 656**51-52-55	740F/37-37-41 656**51-52-55
49A	640	695F/38-39-42 665**48-49-53	738F/39-39-42 672**52-54-57	752F/39-39-42 672**52-54-57
46	656	706F/40-40-44 680**49-50-53	750F/40-40-44 690**54-55-59	765F/40-40-44 690**54-55-59
43	673	719F/41-42-46 696**49-51-54	763F/42-42-46 708**56-57-60	778F/42-42-46 708**56-57-60
40	690	732F/43-44-47 709**49-51-55	776F/44-44-47 726**57-59-62	792F/44-44-47 726**57-59-62
37	709	745F/44-45-49 721**48-50-54	789F/45-45-49 745**58-61-64	806F/45-45-49 745**59-61-64
34	728	749B/46-47-51 733**48-49-53	802F/47-47-51 760**58-60-63	819F/47-47-51 766**61-63-66
31	743	744B/47-48-53	813F/48-48-53 772**57-59-63	829F/48-48-53 780**61-63-67
28	757	748B/47-49-53	825F/49-50-54 782**57-59-63	840F/49-50-54 790**60-62-66
25	767	753B/47-49-54	834F/49-51-55 790**57-59-63	849F/50-51-55 790**57-59-63
22	774	757B/47-49-54	841F/50-51-56 790**55-57-61	857F/50-51-56 790**55-57-61
19	774	761B/48-50-55	845F/50-51-56 790**55-57-61	860F/50-51-56 790**55-57-61
16	775	765B/48-50-55	848F/50-51-56 790**55-56-61	862F/50-51-56 790**55-56-61
13	775	768B/49-51-55	852F/50-51-56 790**55-56-60	862F/51-51-56 790**55-56-60
10	776	772B/49-51-55	856F/50-51-56 790**54-56-60	862F/51-51-56 790**55-56-60
5	777	781B/50-51-56 778**50-52-56	862F/50-51-56 790**54-56-60	862F/51-51-56 790**55-56-60
0	778	794B/50-52-56 782**51-53-57	862F/51-52-56 790**54-56-60	862F/51-52-56 790**54-56-60
-5	778	807B/50-52-56 786**52-54-58	862F/51-52-56 790**54-55-60	862F/51-52-56 790**54-55-60
-10	779	822B/50-52-56 790**53-55-60	862F/51-52-56 790**54-55-60	862F/51-52-56 790**54-55-60

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 400 M OF CLEARWAY AND 75 M OF STOPWAY
RUNWAY SLOPES ARE 0.38 PERCENT FOR TODA AND 0.38 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
08 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3556 FT

RUNWAY 26

ZBHH

 BAITAJICHANG
 HHHT/NORTH CHINA
 DATED 10-JUN-2019

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF					
737-800		CFM56-7B26					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)					
OAT	CLIMB	C	100KG	-10	0	10	
61A	579	571*/31-31-34	584*/32-32-35	588*/32-32-35			
		593**42-44-47	608**45-46-49	608**45-46-49			
58A	594	586*/32-33-36	599*/34-34-37	603*/34-34-37			
		608**43-46-49	623**46-48-51	623**46-48-51			
55A	609	601*/33-35-38	614*/35-36-39	618*/35-36-39			
		623**45-48-51	638**48-50-53	639**48-50-53			
52A	624	616*/35-36-40	629*/37-37-41	634*/37-37-41			
		638**46-50-53	654**49-52-55	656**50-52-55			
49A	640	630*/36-38-41	642*/38-39-42	642*/38-39-42			
		654**48-51-54	670**51-53-56	672**51-54-57			
46	656	646*/38-39-43	658*/40-40-44	659*/40-40-44			
		670**50-53-56	687**52-55-58	690**53-55-59			
43	673	662*/39-41-45	676*/41-42-46	677*/41-42-46			
		685**50-54-57	704**54-57-60	708**55-57-60			
40	690	678*/40-42-46	693*/43-44-47	694*/43-44-47			
		699**49-52-56	721**55-58-62	726**56-59-62			
37	709	696*/42-44-48	711*/44-45-49	712*/44-45-49			
		711**48-51-55	739**57-60-64	745**58-61-64			
34	728	714*/43-46-50	729*/46-47-51	731*/46-47-51			
		724**47-50-54	756**57-60-64	764**59-63-66			
31	743	728*/44-47-51	744*/47-48-53	749*/47-48-53			
		734**46-49-54	768**56-59-63	778**59-63-66			
28	757	741*/45-48-53	757*/48-50-54	763*/48-50-54			
		743**46-49-53	778**55-59-63	789**59-62-66			
25	767	750B/46-49-54	768*/48-51-55	773*/49-51-55			
		786**55-59-63	790**56-59-63				
22	774	754B/46-49-54	774*/49-51-56	780*/49-51-56			
		790**54-58-62	790**54-57-61				
19	774	758B/46-50-54	775*/49-51-56	781*/49-51-56			
		790**54-57-61	790**54-57-61				
16	775	759*/47-50-54	776*/49-51-56	782*/49-51-56			
		761**47-50-55	790**54-57-61	790**54-56-61			
13	775	760*/47-50-54	777*/49-51-56	782*/49-51-56			
		763**48-51-55	790**54-57-61	790**54-56-60			
10	776	761*/47-50-55	778*/49-51-56	783*/49-51-56			
		765**48-52-56	790**53-56-61	790**54-56-60			
5	777	762*/47-50-55	779*/49-51-56	784*/50-51-56			
		769**49-53-57	790**53-56-60	790**53-56-60			
0	778	763*/47-50-55	780*/49-52-56	786*/50-52-56			
		773**50-54-58	790**53-56-60	790**53-56-60			
-5	778	764*/47-50-55	781*/50-52-56	787*/50-52-56			
		776**51-55-60	790**53-55-60	790**53-55-60			
-10	779	765*/47-50-55	782*/50-52-56	788*/50-52-56			
		780**53-57-61	790**53-55-60	790**53-55-60			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 820 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 200 M OF CLEARWAY AND 75 M OF STOPWAY
 RUNWAY SLOPES ARE -0.38 PERCENT FOR TODA AND -0.38 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
26	230	5443	0	515	12329	0	538	12295	0
	453	8322	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2165 FT

RUNWAY 09

ZBLA

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				HULUNBEIERJICHANG HLE/NORTH CHINA
				DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	WIND C 100KG	-10 0 10	
61A	606	605F/34-35-38	648F/35-35-38 625**42-43-46	663F/35-35-38 631**45-46-49
58A	621	616F/35-36-40	659F/37-37-40 639**43-44-47	675F/37-37-40 645**46-47-50
55A	637	628F/36-37-41	671F/38-38-42 653**44-45-48	687F/38-38-42 659**47-48-51
52A	653	639F/37-38-42	683F/40-40-44 667**45-46-49	699F/40-40-44 674**47-48-52
49	670	650F/38-39-44	695F/41-42-45 682**45-46-50	710F/42-42-45 689**48-49-53
46	688	663F/39-41-45	709F/43-43-47 698**46-47-51	723F/43-43-47 705**49-50-53
43	706	675F/40-42-46	722F/44-45-49 714**47-48-52	737F/45-45-49 721**49-51-54
40	724	688F/41-43-48	735F/46-47-51 730**47-49-53	751F/46-47-51 737**50-51-55
37	743	701F/42-44-49	748F/47-48-53 746**48-49-53	764F/47-48-53 754**50-52-56
34	763	714F/43-45-50	762F/48-50-54	778F/49-50-54 770**51-53-57
31	781	726F/43-46-52	775F/49-51-56	792F/50-52-56 786**52-54-58
28	796	736F/44-47-53	786F/50-52-57	803F/50-52-57
25	806	744F/44-47-53	794F/50-52-57	811F/50-52-57
22	807	747F/45-48-54	798F/50-52-57	815F/50-52-57
19	808	751F/45-48-54	802F/50-52-57	819F/50-52-57
16	809	755F/45-49-54	806F/50-52-57	823F/50-52-57
13	809	758F/46-49-55	810F/50-52-57	827F/50-52-57
10	810	762F/46-49-55	814F/50-52-57	831F/50-52-57
5	811	768F/47-50-55	820F/50-52-57	838F/50-52-57
0	812	774F/48-51-56	827F/50-52-57	845F/50-52-57
-5	812	781F/48-51-57	834F/50-52-57	852F/50-52-57
-10	813	787F/49-52-57	841F/50-52-57	859F/51-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 1100 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.14 PERCENT FOR TODA AND -0.14 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 09 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2165 FT

RUNWAY 27

ZBLA

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			HULUNBEIERJICHANG HLE/NORTH CHINA			
737-800 CFM56-7B26			DATED 10-JUN-2019			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE						
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
C 100KG	-10	0	10			
61A 606	587*/32-33-36	614*/35-35-38 614**38-38-41	621*/35-35-38 621**41-42-45			
58A 621	599*/33-34-38	628*/37-37-40 627**39-39-42	635*/37-37-40 635**42-42-45			
55A 637	612*/35-35-39	641*/38-38-42 641**40-40-43	650*/38-38-42 649**43-43-46			
52A 653	624*/36-37-41	655*/40-40-44 655**41-41-44	665*/40-40-44 663**44-44-47			
49 670	638*/37-38-42	669*/42-42-45	680*/42-42-45 678**45-45-48			
46 688	652*/38-39-44	685*/43-43-47	695*/43-43-47 694**45-46-49			
43 706	666*/39-41-45	700*/44-44-48	711*/45-45-49 710**46-47-50			
40 724	680*/40-42-47	715*/45-46-50	727*/46-47-51 726**47-47-51			
37 743	695*/41-43-49	731*/46-47-52	743*/48-48-53			
34 763	710F/42-45-50	747*/47-49-53	759*/49-50-54			
31 781	722F/43-46-51	763*/48-50-55	775*/50-51-56			
28 796	732F/44-46-52	775*/49-51-56	788*/51-52-57			
25 806	740F/44-47-53	785*/50-52-57	796*/51-52-57			
22 807	744F/45-47-53	787*/50-52-57	798*/51-52-57			
19 808	747F/45-48-54	790*/50-52-57	800*/51-52-57			
16 809	751F/45-48-54	793*/50-52-57	802*/51-52-57			
13 809	754F/46-48-54	795*/50-52-57	804*/51-52-57			
10 810	758F/46-49-55	797*/50-52-57	806*/51-52-57			
5 811	763*/47-49-55	800*/50-52-57	810*/51-52-57			
0 812	768*/47-50-55	804*/50-52-57	813*/51-52-57			
-5 812	773*/48-50-56	807*/50-52-57	816*/51-52-57			
-10 813	777*/48-51-56	810*/51-52-57	820*/51-52-57			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 300 M OF CLEARWAY AND 60 M OF STOPWAY

RUNWAY SLOPES ARE 0.14 PERCENT FOR TODA AND 0.14 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

27 23 399 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2231 FT

RUNWAY 12

ZBMZ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIJIAOJICHANG

MZL/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	605	565*/30-30-34 578**36-37-41	580*/32-32-36 600**43-45-48	585*/33-33-36 606**44-46-49
58A	620	579*/31-32-36 591**37-38-42	594*/33-33-37 614**44-45-49	599*/34-34-38 621**46-47-51
55A	636	594*/32-33-37 604**37-39-43	609*/35-35-39 628**45-46-50	614*/36-36-40 636**47-49-52
52A	652	608*/34-35-39 617**38-40-44	624*/37-37-41 642**46-47-51	629*/37-37-41 650**48-49-53
49	668	623*/35-36-41 631**39-40-45	639*/38-38-42 657**46-48-52	645*/39-39-43 665**49-50-54
46	686	640*/37-38-43 646**39-41-46	656*/40-40-44 673**47-48-52	661*/40-40-45 681**50-51-55
43	704	656*/38-39-45 660**40-42-47	672*/41-41-46 688**48-49-54	678*/42-42-47 697**50-52-56
40	723	672*/40-41-46 675**41-43-48	689*/42-43-48 703**48-50-54	695*/43-44-48 713**51-52-57
37	742	688*/41-42-48 690**42-43-49	706*/44-44-49 719**49-51-55	711*/45-45-50 728**51-53-58
34	761	705*/42-44-50	723*/45-46-51 735**50-52-56	729*/46-47-52 744**52-54-59
31	779	717F/43-45-51	740*/46-47-53 750**50-52-57	746*/47-48-53 760**53-55-59
28	794	727F/44-46-52	753*/47-49-54 763**51-53-58	759*/48-49-55 773**53-55-60
25	805	735F/44-47-53	763*/48-50-55 772**51-53-59	770*/49-50-56 783**54-56-61
22	806	739F/44-47-53	764*/48-50-55 774**52-54-59	770*/49-50-56 785**54-57-61
19	806	742F/45-47-53	765*/48-50-55 776**52-55-60	771*/49-50-56 787**55-57-62
16	807	746F/45-48-54	766*/48-50-55 778**53-55-60	772*/49-50-56 789**55-58-63
13	808	747*/45-48-54	766*/48-50-55 780**53-56-61	773*/49-50-56 790**56-58-63
10	808	748*/45-48-54	767*/48-50-55 750**46-49-55	774*/49-51-56 782**54-57-62
5	809	749*/46-48-54 753**47-50-56	768*/49-50-55 785**55-58-63	775*/49-51-56 790**55-57-62
0	810	750*/46-48-54 757**48-51-57	769*/49-50-56 789**56-59-64	776*/50-51-56 790**55-57-62
-5	811	751*/46-48-54 759**49-52-58	770*/49-50-56 790**56-59-64	777*/50-51-56 790**55-56-61
-10	811	751*/46-48-54 762**50-53-59	771*/49-50-56 790**56-59-64	778*/50-51-56 790**54-56-61

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 880 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 800 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.37 PERCENT FOR TODA AND 0.37 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

12 577 8215 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2231 FT

RUNWAY 30

ZBMZ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIJIAOJICHANG

MZH/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	605	607F/34-35-38	648F/35-35-38	664F/35-35-38
		606**35-36-39	625**43-44-47	630**45-47-50
58A	620	618F/35-36-40	660F/36-37-40	676F/37-37-40
		639**43-45-48	645**46-47-50	
55A	636	629F/36-38-41	672F/38-38-42	688F/38-38-42
		653**44-45-49	659**47-48-51	
52A	652	640F/37-39-42	684F/39-40-44	699F/40-40-44
		667**45-46-49	674**48-49-52	
49	668	652F/38-40-44	698F/41-42-45	712F/41-42-45
		682**46-47-50	689**48-50-53	
46	686	664F/39-41-45	711F/42-43-47	725F/43-43-47
		698**46-48-51	705**49-51-54	
43	704	677F/40-42-46	724F/44-45-49	739F/44-45-49
		714**47-48-52	721**49-51-55	
40	723	690F/41-43-48	737F/45-47-51	753F/46-47-51
		730**47-49-53	737**50-52-56	
37	742	703F/42-44-49	750F/47-48-52	767F/47-48-52
		746**48-50-54	754**51-53-57	
34	761	715F/42-45-50	764F/48-50-54	780F/48-50-54
		762**48-51-55	771**51-53-57	
31	779	728F/43-46-52	777F/49-51-56	794F/50-52-56
				787**52-54-58
28	794	738F/44-47-53	787F/50-52-57	805F/50-53-57
25	805	746F/44-48-54	796F/50-52-57	814F/50-52-57
22	806	749F/45-48-54	800F/50-52-57	818F/50-52-57
19	806	753F/45-48-54	804F/50-52-57	822F/50-52-57
16	807	756F/45-49-54	808F/50-52-57	826F/50-52-57
13	808	760F/46-49-55	812F/50-52-57	830F/50-52-57
10	808	764F/46-50-55	816F/50-52-57	834F/50-52-57
5	809	770F/47-50-56	823F/50-52-57	841F/50-52-57
0	810	776F/47-51-56	830F/50-52-57	848F/50-52-57
-5	811	783F/48-51-57	837F/50-52-57	855F/50-52-57
-10	811	789F/49-52-57	844F/50-52-57	862F/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE -0.37 PERCENT FOR TODA AND -0.37 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
30 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3323 FT

RUNWAY 13

ZBOW

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

DONGHEJICHANG
BT/NORTH CHINA

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	583	516*/23-24-29 518**27-30-34	537*/27-27-31 541**31-33-37	544*/28-28-32 548**33-34-38
58A	598	528*/24-25-30 530**28-30-35	549*/28-28-32 553**33-34-38	556*/29-29-33 561**34-35-39
55A	614	540*/25-27-32 542**29-32-37	562*/29-29-34 566**34-35-40	570*/30-30-35 574**35-37-41
52A	629	553*/26-28-33 554**31-34-38	575*/30-31-36 579**35-37-41	583*/32-32-36 587**37-39-43
49A	644	565*/27-29-35 566**32-35-40	588*/31-32-37 591**37-39-43	596*/33-33-38 599**38-40-44
46	661	578*/29-31-36 579**31-34-39	602*/33-34-39 605**38-40-45	610*/34-35-39 613**39-41-45
43	678	591*/30-32-38	616*/34-35-40 619**39-41-46	624*/35-36-41 627**41-43-47
40	696	605*/31-33-39	630*/35-37-42 633**40-42-48	639*/37-38-43 642**42-44-49
37	715	620*/32-35-41	646*/37-38-44 648**42-44-50	654*/38-39-45 657**43-46-51
34	733	634*/34-36-43	661*/38-40-45 663**43-46-51	670*/39-41-46 672**45-47-53
31	749	646*/35-37-44	674*/39-41-47 676**44-47-53	683*/40-42-48 685**46-49-54
28	763	656*/36-39-45	685*/40-42-48 687**45-48-53	694*/41-43-49 697**47-50-55
25	774	665*/36-39-46	694*/41-43-49 696**45-48-54	704*/42-44-50 706**47-50-56
22	779	670*/37-40-47	700*/41-43-49 701**45-48-54	709*/43-44-50 712**48-51-57
19	780	672*/37-40-47	701*/41-43-49 703**45-48-54	711*/43-44-50 714**48-51-57
16	781	673*/37-40-47	703*/42-43-50 705**46-49-54	712*/43-45-50 715**47-50-56
13	781	675*/37-40-47	704*/42-44-50 707**46-49-55	714*/43-45-51 717**48-51-57
10	782	676*/38-40-47	706*/42-44-50 708**46-50-55	715*/43-45-51 719**49-52-58
5	782	679*/38-41-48	708*/42-44-50 711**47-51-56	718*/44-45-51 722**49-52-58
0	783	681*/38-41-48	711*/43-44-50 714**48-51-57	720*/44-45-51 725**50-53-58
-5	784	684*/39-41-48	713*/43-45-51 717**48-52-57	723*/44-46-51 728**50-53-58
-10	784	686*/39-42-48 687**43-47-53	715*/43-45-51 720**49-52-57	725*/45-46-52 731**51-54-59

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.26 PERCENT FOR TODA AND -0.26 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
13 308 2993 0 190 1524 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3323 FT

RUNWAY 31 ZBOW

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	DONGHEJICHANG BT/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 583	516*/23-24-29	535*/26-26-31	541*/27-27-31
	524**32-35-39	545**36-38-41	551**37-38-42
58A 598	529*/25-25-30	548*/28-28-32	554*/29-29-33
	537**33-36-40	558**37-39-43	564**38-40-44
55A 614	542*/26-27-32	561*/29-29-34	567*/30-30-35
	550**35-38-42	571**38-41-45	578**40-42-45
52A 629	555*/27-28-33	575*/31-31-35	581*/32-32-36
	562**36-39-44	584**40-42-46	591**41-43-47
49A 644	568*/28-30-35	588*/32-32-37	594*/33-33-38
	575**37-41-45	597**41-44-48	605**43-45-49
46 661	581*/30-31-37	602*/33-34-39	609*/35-35-39
	588**39-42-47	611**43-45-50	619**44-46-51
43 678	596*/31-33-38	617*/35-35-40	624*/36-36-41
	602**39-43-48	626**44-47-51	634**45-48-52
40 696	610*/32-34-40	631*/36-37-42	639*/37-38-43
	616**40-44-49	640**46-48-53	648**47-49-54
37 715	625*/34-36-42	647*/37-38-44	654*/39-39-45
	630**41-44-50	656**47-50-55	664**48-51-56
34 733	640*/35-37-43	663*/39-40-46	671*/40-41-46
	645**41-44-50	672**48-52-57	680**50-53-58
31 749	653*/36-38-45	676*/40-41-47	684*/41-42-48
	658**42-45-51	685**50-53-58	694**51-54-59
28 763	664*/37-39-46	688*/41-42-48	696*/42-43-49
	669**43-46-52	696**50-54-59	705**52-55-60
25 774	673*/38-40-47	697*/42-43-49	705*/43-44-50
	678**43-47-53	706**51-54-60	715**53-56-61
22 779	678*/38-41-47	702*/42-43-50	710*/43-44-50
	683**44-48-54	711**51-55-61	720**53-57-62
19 780	679*/38-41-48	704*/42-44-50	712*/43-44-50
	685**44-48-54	713**52-56-61	722**53-57-62
16 781	680*/39-41-48	705*/42-44-50	713*/44-45-51
	686**45-49-55	714**52-56-61	723**54-57-62
13 781	681*/39-41-48	706*/43-44-50	714*/44-45-51
	687**46-50-56	715**52-56-62	725**54-57-62
10 782	682*/39-41-48	707*/43-44-50	715*/44-45-51
	689**46-50-56	717**52-56-62	726**54-57-63
5 782	684*/39-41-48	709*/43-44-50	717*/44-45-51
	691**47-52-58	719**53-57-62	729**54-58-63
0 783	686*/39-42-48	710*/43-44-50	719*/44-45-51
	693**48-53-59	722**53-57-62	731**54-58-63
-5 784	687*/40-42-48	712*/43-44-50	720*/45-45-51
	695**49-54-59	724**53-57-62	733**55-58-63
-10 784	689*/40-42-48	714*/44-45-51	722*/45-45-51
	697**49-54-60	726**54-57-63	735**55-58-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 860 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.26 PERCENT FOR TODA AND 0.26 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 31 492 6710 0 295 2852 0 607 14015 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 233 FT

RUNWAY 15

ZBSJ

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	ZHENGDINGJICHANG SJZ/NORTH CHINA	
737-800	CFM56-7B26		DATED 10-JUN-2019	
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10 0 10		
61A	646	659*/39-39-43 672**49-51-54	675*/39-39-43 679**52-54-57	680*/39-39-43 679**53-54-57
58A	662	674*/40-41-45 687**50-52-55	691*/41-41-45 696**54-56-59	696*/41-41-45 696**54-56-59
55A	678	690*/41-42-46 702**50-52-56	707*/42-42-46 713**55-58-61	712*/42-42-46 713**56-58-61
52	696	707*/43-44-48 718**51-53-56	724*/44-44-48 732**57-60-63	730*/44-44-48 732**57-60-63
49	715	725*/44-46-50 735**51-54-57	743*/45-46-50 752**59-61-65	748*/45-46-50 752**59-61-65
46	734	743*/46-48-52 751**51-54-58	762*/47-48-52 771**60-63-66	768*/47-48-52 773**61-63-67
43	753	761*/47-49-54 764**50-53-57	780*/48-49-54 789**60-64-67	786*/48-49-54 790**61-64-68
40	773	780*/49-51-55 776**49-52-56	799*/49-51-55 790**55-57-61	805*/50-51-55 790**55-57-61
37	793	784B/49-52-56	818*/50-52-57	825*/51-52-57
34	813	789B/49-52-57	835*/50-52-57	841*/50-52-57
31	834	799B/48-52-57	852*/49-52-57	859*/50-52-57
28	844	808B/48-52-58	860*/49-52-58	862F/49-52-58
25	845	816B/48-52-58	862F/49-52-58	862F/49-52-58
22	846	824B/48-52-58	862F/49-52-58	862F/49-52-58
19	847	832B/48-52-58	862F/49-52-58	862F/49-52-58
16	848	840B/48-52-58	862F/49-52-58	862F/49-52-58
13	849	846*/48-52-58	862F/49-52-58	862F/49-52-58
10	850	848*/48-52-58	862F/49-52-58	862F/49-52-58
5	851	851*/48-52-58	862F/49-52-58	862F/49-52-58
0	852	853*/48-51-58	862F/49-51-58	862F/49-51-58
-5	853	855*/48-51-58	862F/49-51-58	862F/49-51-58
-10	853	857*/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 240 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.10 PERCENT FOR TODA AND -0.10 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 15 89 1929 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 233 FT

RUNWAY 33 ZBSJ

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	ZHENGDING JICHANG SJZ/NORTH CHINA				
737-800		CFM56-7B26		DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE									
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)									
C	100KG	-10	0	10					
61A	646	701F/39-39-43 672**48-50-53	746F/39-39-43 679**53-54-57	762F/39-39-43 679**53-54-57					
58A	662	712F/40-41-45 687**49-51-54	758F/41-41-45 696**54-56-59	774F/41-41-45 696**54-56-59					
55A	678	725F/42-42-46 701**50-52-55	770F/42-42-46 713**56-58-61	786F/42-42-46 713**56-58-61					
52	696	739F/43-44-48 717**50-52-56	783F/44-44-48 732**57-60-63	800F/44-44-48 732**57-60-63					
49	715	753F/45-46-50 733**51-53-57	797F/45-46-50 752**59-61-65	814F/46-46-50 752**59-61-65					
46	734	768F/46-48-52 751**51-54-57	811F/47-48-52 770**59-62-66	828F/47-48-52 773**61-63-67					
43	753	781F/47-49-54 764**51-53-57	827F/48-49-54 788**60-63-67	842F/49-49-54 790**61-64-68					
40	773	784F/49-51-55 776**50-52-56	843F/50-51-55 790**55-57-61	858F/50-51-55 790**55-57-61					
37	793	784B/49-52-57	858F/51-52-57	862F/51-52-57					
34	813	790B/49-52-57	862F/50-52-57	862F/50-52-57					
31	834	801B/48-52-57	862F/49-52-57	862F/50-52-57					
28	844	810B/48-52-58	862F/49-52-58	862F/49-52-58					
25	845	818B/48-52-58	862F/49-52-58	862F/49-52-58					
22	846	826B/48-52-58	862F/49-52-58	862F/50-52-58					
19	847	834B/48-52-58	862F/49-52-58	862F/50-52-58					
16	848	843B/48-52-58	862F/49-52-58	862F/50-52-58					
13	849	851B/48-52-58	862F/49-52-58	862F/50-52-58					
10	850	859B/48-52-58	862F/49-52-58	862F/50-52-58					
5	851	862F/48-52-58	862F/49-52-58	862F/50-52-58					
0	852	862F/48-51-58	862F/49-51-58	862F/50-51-58					
-5	853	862F/48-51-58	862F/49-51-58	862F/50-51-58					
-10	853	862F/48-51-58	862F/49-51-58	862F/50-51-58					

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 240 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE 0.10 PERCENT FOR TODA AND 0.10 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

33 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 49 FT

RUNWAY 10

ZBSN

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	SANNVHEJICHANG TS/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 650	603*/33-34-39 611**37-39-43	619*/36-36-40 637**45-46-50	625*/37-37-41 645**47-49-53
58A 666	617*/34-35-40 624**38-40-44	634*/38-38-42 650**46-47-51	640*/38-38-42 659**48-50-53
55A 682	631*/36-37-42 638**39-40-45	649*/39-39-44 665**46-48-52	655*/40-40-44 673**49-50-54
52 700	648*/37-39-44 652**39-41-46	666*/40-41-45 681**47-49-53	672*/41-41-46 690**50-51-55
49 719	665*/39-40-45 668**40-42-47	683*/42-42-47 697**48-49-54	689*/43-43-48 707**50-52-56
46 739	682*/40-42-47 684**41-43-48	701*/43-44-49 714**48-50-55	708*/44-45-49 724**51-53-57
43 758	700F/42-43-49	719*/45-46-51 730**49-51-56	726*/46-46-51 740**52-54-58
40 778	713F/43-45-50	737*/46-47-52 747**50-52-57	743*/47-48-53 757**52-55-59
37 798	726F/43-46-52	755*/47-49-54 763**50-53-58	761*/48-49-55 774**53-55-60
34 818	739F/44-47-53	773*/48-50-56 780**51-53-59	780*/49-51-56 790**53-56-61
31 839	752F/45-48-54	792*/49-52-58	799*/50-52-58
28 847	759F/45-48-55	800*/49-52-58	806*/50-52-58
25 849	763F/45-49-55	801*/49-52-58	808*/50-52-58
22 850	766F/46-49-56	802*/49-52-58	809*/50-52-58
19 851	770F/46-49-56	803*/49-51-58	810*/50-51-58
16 851	774F/47-50-56	804*/49-51-58	811*/50-51-58
13 852	777F/47-50-57	805*/49-51-58	812*/50-51-58
10 853	781F/47-51-57	806*/49-51-58	813*/50-51-58
5 855	787*/48-51-57	808*/49-51-58	815*/50-51-58
0 856	788*/48-51-58 790**49-52-58	809*/49-51-58 811*/49-51-58	816*/50-51-58 818*/50-51-58
-5 856	789*/48-51-58	811*/49-51-58	819*/50-51-58
-10 857	790*/48-51-58	811*/49-51-58	819*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 730 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2700 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.20 PERCENT FOR TODA AND 0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 10 161 2486 0 285 4105 0 492 6660 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 49 FT

RUNWAY 28 ZBSN

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	SANNHEJICHANG TS/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 650	604*/33-34-39	621*/36-36-40	627*/37-37-41
	614**38-40-44	639**46-48-51	647**48-50-54
58A 666	618*/34-36-40	636*/37-38-42	641*/38-38-43
	627**39-41-45	653**46-48-52	661**49-51-55
55A 682	633*/36-37-42	651*/39-39-44	657*/40-40-44
	640**39-42-46	667**47-49-53	676**50-52-56
52 700	649*/37-39-44	667*/40-41-45	673*/41-42-46
	655**40-42-47	683**48-50-54	692**50-53-57
49 719	666*/39-40-46	685*/42-42-47	691*/43-43-48
	671**41-43-48	700**48-51-55	709**51-53-57
46 739	684*/40-42-47	703*/43-44-49	709*/44-45-50
	687**41-44-49	717**49-51-56	727**52-54-58
43 758	701*/41-44-49	721*/44-46-51	727*/45-46-51
	703**42-45-50	733**50-52-57	743**52-55-59
40 778	718*/43-45-51	738*/46-47-53	745*/47-48-53
		749**50-53-58	760**53-56-60
37 798	731F/43-46-52	756*/47-49-54	763*/48-50-55
		766**51-54-59	777**53-56-61
34 818	744F/44-47-54	775*/48-50-56	782*/49-51-57
		783**51-54-60	790**52-55-60
31 839	757F/45-48-55	794*/49-52-58	801*/49-52-58
28 847	764F/45-49-56	801*/49-52-58	808*/49-52-58
25 849	768F/45-49-56	802*/49-52-58	809*/49-52-58
22 850	772F/46-50-56	804*/49-52-58	811*/49-52-58
19 851	776F/46-50-56	805*/49-51-58	812*/49-51-58
16 851	779F/47-50-57	806*/49-51-58	813*/49-51-58
13 852	783F/47-51-57	807*/49-51-58	814*/49-51-58
10 853	787*/47-51-57	808*/49-51-58	815*/49-51-58
5 855	788*/48-51-58	810*/49-51-58	817*/49-51-58
	790**48-52-58		
0 856	790*/48-51-58	811*/49-51-58	819*/49-51-58
-5 856	791*/48-51-58	813*/49-51-58	820*/49-51-58
-10 857	792*/48-51-58	814*/49-51-58	821*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 700 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2700 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 28 285 4113 0 492 6660 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 16L ZBTJ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BINHAI JICHANG

TJ/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	589*/31-32-37 606**41-45-49	606*/34-34-39 625**45-47-51	612*/35-35-39 632**46-48-52
58A	666	603*/32-34-39 620**43-46-51	621*/36-36-41 640**46-49-53	626*/37-37-41 646**47-50-54
55A	683	617*/34-35-40 635**44-48-52	635*/37-37-42 655**48-50-55	641*/38-38-43 661**49-51-55
52	701	633*/35-37-42 651**46-50-54	652*/38-39-44 672**49-52-57	658*/40-40-45 679**51-53-57
49	720	650*/37-38-44 668**48-51-56	669*/40-41-46 689**51-54-58	675*/41-41-46 696**52-55-59
46	740	667*/38-40-46 686**49-53-58	686*/41-42-48 707**52-56-60	693*/42-43-48 715**54-57-61
43	759	684*/40-42-48 703**50-55-60	704*/43-44-49 725**54-57-62	710*/44-45-50 732**55-58-63
40	779	701*/41-43-49 719**52-56-62	721*/44-45-51 742**55-59-64	728*/45-46-52 750**56-60-65
37	799	717*/42-45-51 736**53-58-64	738*/45-47-53 760**56-61-66	745*/46-48-53 767**58-62-67
34	819	735*/43-46-53 753**54-59-65	756*/46-48-55 778**58-62-68	763*/47-49-55 786**59-63-68
31	840	753*/44-48-54 769**52-57-63	775*/48-50-56 790**54-58-64	783*/49-51-57 790**51-54-60
28	848	760*/45-48-55 776**52-57-63	783*/48-51-57 790**51-54-60	790*/49-52-58
25	849	761*/45-49-55 778**53-58-64	784*/48-51-57 790**51-54-60	791*/49-52-58
22	850	763*/45-49-55 780**53-59-65	785*/48-51-57 790**50-53-59	792*/49-52-58
19	851	764*/45-49-55 782**54-60-66	786*/49-51-57 790**50-53-59	793*/49-51-58
16	852	765*/45-49-56 783**55-60-66	787*/49-51-57 790**50-52-59	794*/49-51-58
13	853	766*/45-49-56 785**55-61-67	788*/49-51-58 790**49-52-58	795*/49-51-58
10	854	767*/46-49-56 787**56-62-68	789*/49-51-58 790**50-53-59	797*/49-51-58
5	855	768*/46-49-56 790**57-63-69	791*/49-51-58 798*/49-51-58	798*/49-51-58
0	856	769*/46-49-56 790**56-62-68	792*/49-51-58 800*/49-51-58	800*/49-51-58
-5	857	770*/46-49-56 790**55-61-67	793*/49-51-58 801*/49-51-58	801*/49-51-58
-10	857	771*/46-49-56 790**55-60-66	794*/49-51-58 801*/50-51-58	801*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 920 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 16L 663 7350 0 663 7460 0 436 7810 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 16R ZBTJ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BINHAI JICHIANG

TJ/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	651	676*/39-40-43	694*/40-40-43	699*/40-40-43	
		682**51-53-57	684**53-55-58	684**53-55-58	
58A	666	691*/41-41-45	709*/41-41-45	715*/41-41-45	
		697**52-54-57	701**54-56-60	701**55-56-60	
55A	683	706*/42-43-47	725*/43-43-47	731*/43-43-47	
		712**53-55-58	718**56-58-61	718**56-58-61	
52	701	724*/43-45-48	743*/44-45-48	750*/45-45-48	
		730**53-56-59	737**58-60-63	737**58-60-63	
49	720	741*/45-46-50	762*/46-46-50	768*/46-46-50	
		743**52-55-59	757**59-62-65	757**59-62-65	
46	740	760*/46-48-52	781*/47-48-52	787*/47-48-52	
		756**51-54-58	778**61-64-68	778**61-64-68	
43	759	777*/48-50-54	799*/49-50-54	806*/49-50-54	
		768**50-53-57	790**59-61-65	790**59-61-65	
40	779	785B/49-52-56	818*/50-52-56	825*/50-52-56	
		780**50-52-56	790**53-55-59	790**54-55-59	
37	799	788B/49-52-57	835*/50-52-57	843*/51-52-57	
34	819	796B/49-52-57	850*/50-52-57	858*/50-52-57	
31	840	807B/48-52-58	862F/49-52-58	862F/49-52-58	
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58	
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58	
22	850	832B/48-52-58	862F/49-52-58	862F/49-52-58	
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58	
16	852	848B/48-51-58	862F/49-51-58	862F/49-51-58	
13	853	856*/48-51-58	862F/49-51-58	862F/49-51-58	
10	854	858*/48-51-58	862F/49-51-58	862F/49-51-58	
5	855	862*/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	857	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	857	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
16R 33 670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 16R/A10 ZBTJ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BINHAI JICHANG
TJ/NORTH CHINA

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	662*/39-40-43 663**43-45-48	681*/40-40-43 684**53-55-58	687*/40-40-43 684**53-55-58
58A	666	676*/41-41-45 677**44-45-49	696*/41-41-45 700**54-56-59	702*/41-41-45 701**55-56-60
55A	683	691*/42-43-47 692**45-46-50	712*/43-43-47 716**55-57-60	718*/43-43-47 718**56-58-61
52	701	707*/43-45-48 708**46-47-51	729*/44-45-48 733**56-58-61	736*/45-45-48 737**58-60-63
49	720	724*/45-46-50 725**47-49-53	747*/46-46-50 751**56-59-62	754*/46-46-50 757**59-62-65
46	740	742*/46-48-52 742**48-50-54	765*/47-48-52 770**57-60-63	773*/47-48-52 776**60-63-67
43	759	759*/48-50-54	783*/49-50-54 787**58-60-64	791*/49-50-54 790**59-61-65
40	779	777*/49-51-56	801*/50-52-56 790**53-55-59	809*/50-52-56 790**54-55-59
37	799	788B/49-52-57	818*/50-52-57	826*/51-52-57
34	819	796B/49-52-57	831*/50-52-57	840*/50-52-57
31	840	807B/48-52-58	846*/49-52-58	855*/49-52-58
28	848	816B/48-52-58	852*/49-52-58	861*/49-52-58
25	849	824B/48-52-58	854*/49-52-58	862F/49-52-58
22	850	828*/48-52-58	856*/49-52-58	862F/49-52-58
19	851	830*/48-51-58	858*/49-51-58	862F/49-51-58
16	852	832*/48-51-58	860*/49-51-58	862F/49-51-58
13	853	834*/48-51-58	862F/49-51-58	862F/49-51-58
10	854	837*/48-51-58	862F/49-51-58	862F/49-51-58
5	855	840*/48-51-58	862F/49-51-58	862F/49-51-58
0	856	844*/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	847*/48-51-58	862F/49-51-58	862F/49-51-58
-10	857	850*/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
16R/A10 33 670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 16R/B7 ZBTJ

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			BINHAI JICHANG TJ/NORTH CHINA			
737-800 CFM56-7B26		*A* INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE						
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
C	100KG	-10	0	10				
61A	651	662*/39-40-43	681*/40-40-43	687*/40-40-43				
		663**43-45-48	684**53-55-58	684**53-55-58				
58A	666	676*/41-41-45	696*/41-41-45	702*/41-41-45				
		677**44-45-49	700**54-56-59	701**55-56-60				
55A	683	691*/42-43-47	712*/43-43-47	718*/43-43-47				
		692**45-46-50	716**55-57-60	718**56-58-61				
52	701	707*/43-45-48	729*/44-45-48	736*/45-45-48				
		708**46-47-51	733**56-58-61	737**58-60-63				
49	720	724*/45-46-50	747*/46-46-50	754*/46-46-50				
		725**47-49-53	751**56-59-62	757**59-62-65				
46	740	742*/46-48-52	765*/47-48-52	773*/47-48-52				
		742**48-50-54	770**57-60-63	776**60-63-67				
43	759	759*/48-50-54	783*/49-50-54	791*/49-50-54				
			787**58-60-64	790**59-61-65				
40	779	777*/49-51-56	801*/50-52-56	809*/50-52-56				
			790**53-55-59	790**54-55-59				
37	799	788B/49-52-57	818*/50-52-57	826*/51-52-57				
34	819	796B/49-52-57	831*/50-52-57	840*/50-52-57				
31	840	807B/48-52-58	846*/49-52-58	855*/49-52-58				
28	848	816B/48-52-58	852*/49-52-58	861*/49-52-58				
25	849	824B/48-52-58	854*/49-52-58	862F/49-52-58				
22	850	828*/48-52-58	856*/49-52-58	862F/49-52-58				
19	851	830*/48-51-58	858*/49-51-58	862F/49-51-58				
16	852	832*/48-51-58	860*/49-51-58	862F/49-51-58				
13	853	834*/48-51-58	862F/49-51-58	862F/49-51-58				
10	854	837*/48-51-58	862F/49-51-58	862F/49-51-58				
5	855	840*/48-51-58	862F/49-51-58	862F/49-51-58				
0	856	844*/48-51-58	862F/49-51-58	862F/49-51-58				
-5	857	847*/48-51-58	862F/49-51-58	862F/49-51-58				
-10	857	850*/48-51-58	862F/49-51-58	862F/50-51-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 16R/B7 33 670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 34L ZBTJ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BINHAI JICHANG
TJ/NORTH CHINA

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	671*/39-40-43	688*/40-40-43	693*/40-40-43
		677**49-51-54	684**53-55-58	684**53-55-58
58A	666	686*/41-41-45	704*/41-41-45	709*/41-41-45
		692**50-52-55	701**54-56-60	701**55-56-60
55A	683	701*/42-43-47	720*/43-43-47	726*/43-43-47
		707**50-53-56	718**56-58-61	718**56-58-61
52	701	718*/43-45-48	738*/44-45-48	744*/45-45-48
		724**51-54-57	737**58-60-63	737**58-60-63
49	720	736*/45-46-50	756*/46-46-50	763*/46-46-50
		741**52-54-58	757**59-62-65	757**59-62-65
46	740	754*/46-48-52	775*/47-48-52	782*/47-48-52
		756**51-54-58	778**61-64-68	778**61-64-68
43	759	772*/48-50-54	793*/49-50-54	800*/49-50-54
		768**50-53-57	790**59-61-65	790**59-61-65
40	779	785B/49-52-56	812*/50-52-56	819*/50-52-56
		780**50-52-56	790**53-55-59	790**54-55-59
37	799	788B/49-52-57	829*/50-52-57	837*/51-52-57
34	819	796B/49-52-57	844*/50-52-57	852*/50-52-57
31	840	807B/48-52-58	860*/49-52-58	862F/49-52-58
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	832B/48-52-58	862F/49-52-58	862F/49-52-58
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58
16	852	848*/48-51-58	862F/49-51-58	862F/49-51-58
13	853	851*/48-51-58	862F/49-51-58	862F/49-51-58
10	854	853*/48-51-58	862F/49-51-58	862F/49-51-58
5	855	856*/48-51-58	862F/49-51-58	862F/49-51-58
0	856	859*/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	857	862F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 34L 39 700 0 89 2270 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 34L/B2 ZBTJ

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	BINHAI JICHANG TJ/NORTH CHINA				
737-800		CFM56-7B26		DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE									
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)									
C	100KG	-10	0	10					
61A	651	664*/39-40-43 668**45-47-50	682*/40-40-43 684**53-55-58	688*/40-40-43 684**53-55-58					
58A	666	679*/41-41-45 682**46-48-51	698*/41-41-45 701**54-56-60	704*/41-41-45 701**55-56-60					
55A	683	694*/42-43-47 697**47-48-52	714*/43-43-47 718**56-58-61	720*/43-43-47 718**56-58-61					
52	701	711*/43-45-48 713**47-49-53	731*/44-45-48 737**58-60-63	738*/45-45-48 737**58-60-63					
49	720	728*/45-46-50 730**48-50-54	749*/46-46-50 756**59-61-65	756*/46-46-50 757**59-62-65					
46	740	746*/46-48-52 748**49-52-56	768*/47-48-52 774**59-62-65	775*/47-48-52 778**61-64-68					
43	759	763*/48-50-54 765**51-53-58	786*/49-50-54 790**59-61-65	793*/49-50-54 790**59-61-65					
40	779	781*/49-52-56 780**50-52-56	804*/50-52-56 790**53-55-59	812*/50-52-56 790**54-55-59					
37	799	788B/49-52-57	821*/50-52-57	829*/51-52-57					
34	819	796B/49-52-57	836*/50-52-57	844*/50-52-57					
31	840	807B/48-52-58	850*/49-52-58	859*/49-52-58					
28	848	816B/48-52-58	857*/49-52-58	862F/49-52-58					
25	849	824B/48-52-58	859*/49-52-58	862F/49-52-58					
22	850	832B/48-52-58	861*/49-52-58	862F/49-52-58					
19	851	836*/48-51-58	862F/49-51-58	862F/49-51-58					
16	852	838*/48-51-58	862F/49-51-58	862F/49-51-58					
13	853	840*/48-51-58	862F/49-51-58	862F/49-51-58					
10	854	842*/48-51-58	862F/49-51-58	862F/49-51-58					
5	855	846*/48-51-58	862F/49-51-58	862F/49-51-58					
0	856	849*/48-51-58	862F/49-51-58	862F/49-51-58					
-5	857	852*/48-51-58	862F/49-51-58	862F/49-51-58					
-10	857	855*/48-51-58	862F/49-51-58	862F/50-51-58					

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 34L/B2 39 700 0 89 2270 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 34R ZBTJ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BINHAI JICHANG
TJ/NORTH CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	654*/39-40-43 665**45-46-50	670*/40-40-43 684**53-55-58	675*/40-40-43 684**53-55-58
58A	666	669*/41-41-45 679**46-47-51	686*/41-41-45 699**54-56-59	691*/41-41-45 701**55-56-60
55A	683	685*/42-43-47 694**46-48-52	702*/43-43-47 715**55-57-60	707*/43-43-47 718**56-58-61
52	701	703*/43-45-48 710**47-49-53	720*/44-45-48 732**55-57-61	725*/45-45-48 737**58-60-63
49	720	721*/45-46-50 727**48-50-54	738*/46-46-50 750**56-58-62	744*/46-46-50 756**59-61-65
46	740	740*/46-48-52 745**48-51-55	758*/47-48-52 768**56-59-62	763*/47-48-52 774**59-62-65
43	759	758*/48-50-54 762**49-51-56	776*/49-50-54 785**57-60-63	782*/49-50-54 790**59-61-65
40	779	777*/49-51-56 779**50-52-56	795*/50-52-56 790**53-55-59	801*/50-52-56 790**54-55-59
37	799	788B/49-52-57	814*/50-52-57	820*/51-52-57
34	819	796B/49-52-57	831*/50-52-57	838*/50-52-57
31	840	807B/48-52-58	849*/49-52-58	856*/49-52-58
28	848	816B/48-52-58	857*/49-52-58	862F/49-52-58
25	849	824B/48-52-58	858*/49-52-58	862F/49-52-58
22	850	832B/48-52-58	860*/49-52-58	862F/49-52-58
19	851	840F/48-51-58	861*/49-51-58	862F/49-51-58
16	852	842*/48-51-58	862F/49-51-58	862F/49-51-58
13	853	843*/48-51-58	862F/49-51-58	862F/49-51-58
10	854	845*/48-51-58	862F/49-51-58	862F/49-51-58
5	855	847*/48-51-58	862F/49-51-58	862F/49-51-58
0	856	849*/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	851*/48-51-58	862F/49-51-58	862F/49-51-58
-10	857	852*/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

34R	138	2950	0
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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 34R/W2 ZBTJ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			BINHAI JICHANG
			TJ/NORTH CHINA
			DATED 10-JUN-2019
737-800	CFM56-7B26		
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C	100KG	-10 0 10	
61A	651	651*/39-40-43 667*/40-40-43 672*/40-40-43 656**42-43-46 678**50-51-54 683**53-54-57	
58A	666	666*/41-41-45 683*/41-41-45 688*/41-41-45 670**42-43-47 692**50-52-55 698**53-55-58	
55A	683	681*/42-43-46 699*/43-43-47 704*/43-43-47 685**43-44-48 708**51-53-56 713**54-56-59	
52	701	699*/43-44-48 717*/44-45-48 722*/45-45-48 700**44-45-49 724**52-54-57 731**55-57-60	
49	720	717F/45-46-50 735*/46-46-50 741*/46-46-50 741**53-54-58 749**55-57-61	
46	740	732F/45-47-52 754*/47-48-52 760*/47-48-52 759**53-55-59 767**56-58-62	
43	759	747F/46-48-53 773*/49-50-54 779*/49-50-54 777**54-56-60 784**57-59-63	
40	779	761F/47-50-54 792*/50-52-56 798*/50-52-56 790**53-55-59 790**54-55-59	
37	799	775F/48-51-56 810*/50-52-57 816*/51-52-57	
34	819	789F/49-52-57 827*/50-52-57 834*/50-52-57	
31	840	802F/48-52-58 845*/49-52-58 852*/49-52-58	
28	848	809F/48-52-58 852*/49-52-58 859*/49-52-58	
25	849	813F/48-52-58 854*/49-52-58 861*/49-52-58	
22	850	817F/48-52-58 856*/49-52-58 862F/49-52-58	
19	851	821F/48-51-58 857*/49-51-58 862F/49-51-58	
16	852	825F/48-51-58 859*/49-51-58 862F/49-51-58	
13	853	829F/48-51-58 860*/49-51-58 862F/49-51-58	
10	854	833F/48-51-58 862*/49-51-58 862F/49-51-58	
5	855	840F/48-51-58 862F/49-51-58 862F/49-51-58	
0	856	845*/48-51-58 862F/49-51-58 862F/49-51-58	
-5	857	846*/48-51-58 862F/49-51-58 862F/49-51-58	
-10	857	848*/48-51-58 862F/49-51-58 862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3038 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 34R/W2 138 2950 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 604 FT

RUNWAY 02 ZBTL

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

TONGLIAOJICHANG
TL/NORTH CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	639	566F/28-29-35	604F/34-34-38	617F/36-36-40
58A	654	576F/29-30-36	615F/35-35-40	628F/37-37-41
55A	670	587F/30-32-37	626F/36-36-41	639F/38-38-42
52	687	598F/31-33-39	638F/37-38-43	652F/39-39-44
49	706	609F/32-34-40	650F/38-39-44	665F/40-40-45
46	725	620F/33-35-41	664F/39-40-45	678F/41-42-47
43	744	631F/34-36-43	677F/40-41-47	692F/42-43-48
40	764	643F/34-37-44	691F/41-42-48	706F/43-44-50
37	784	655F/35-38-45	705F/42-44-50	720F/44-45-51
34	804	667F/36-39-47	718F/43-45-51	735F/45-46-53
31	823	678F/37-40-48	730F/44-46-52	747F/46-47-54
28	837	687F/38-41-49	739F/44-46-53	757F/46-48-55
25	838	691F/38-41-49	743F/45-47-54	761F/47-49-55
22	839	695F/38-41-50	747F/45-47-54	765F/47-49-55
19	840	698F/39-42-50	751F/45-48-54	768F/47-49-56
16	841	702F/39-42-50	754F/46-48-55	772F/48-50-56
13	841	705F/40-43-50	758F/46-48-55	776F/48-50-56
10	842	709F/40-43-51	762F/47-49-55	780F/49-51-57
5	843	715F/41-44-51	768F/47-49-56	787F/49-51-57
0	844	721F/41-44-52	775F/48-50-56	794F/50-52-58
-5	845	727F/42-45-52	781F/49-51-57	801F/50-52-58
-10	846	733F/43-46-53	788F/49-51-57	807F/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMBRUNWAY IS 2300 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
02 46 1150 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 604 FT

RUNWAY 20 ZBTL

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF TONGLIAO JICHANG
 737-800 CFM56-7B26 TL/NORTH CHINA
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	639	566F/28-29-35	604F/34-34-38	615*/36-36-40
58A	654	576F/29-30-36	615F/35-35-40	628F/37-37-41
55A	670	587F/30-32-37	626F/36-36-41	639F/38-38-42
52	687	598F/31-33-39	638F/37-38-43	652F/39-39-44
49	706	609F/32-34-40	650F/38-39-44	665F/40-40-45
46	725	620F/33-35-41	664F/39-40-45	678F/41-42-47
43	744	631F/34-36-43	677F/40-41-47	692F/42-43-48
40	764	643F/34-37-44	691F/41-42-48	706F/43-44-50
37	784	655F/35-38-45	705F/42-44-50	720F/44-45-51
34	804	667F/36-39-47	718F/43-45-51	735F/45-46-53
31	823	678F/37-40-48	730F/44-46-52	747F/46-47-54
28	837	687F/38-41-49	739F/44-46-53	757F/46-48-55
25	838	691F/38-41-49	743F/45-47-54	761F/47-49-55
22	839	695F/38-41-50	747F/45-47-54	765F/47-49-55
19	840	698F/39-42-50	751F/45-48-54	768F/47-49-56
16	841	702F/39-42-50	754F/46-48-55	772F/48-50-56
13	841	705F/40-43-50	758F/46-48-55	776F/48-50-56
10	842	709F/40-43-51	762F/47-49-55	780F/49-51-57
5	843	715F/41-44-51	768F/47-49-56	787F/49-51-57
0	844	721F/41-44-52	775F/48-50-56	794F/50-52-58
-5	845	727F/42-45-52	781F/49-51-57	801F/50-52-58
-10	846	733F/43-46-53	788F/49-51-57	806*/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2300 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20 49 703 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2582 FT

RUNWAY 13

ZBYN

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

WUSUJICHANG
TY/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	598	607*/34-34-37	617*/34-34-37	621*/34-34-37
		625**45-47-50	628**48-49-52	628**48-49-52
58A	613	622*/36-36-39	633*/36-36-39	637*/36-36-39
		639**46-48-51	644**49-51-53	644**49-51-53
55A	629	638*/37-38-41	649*/38-38-41	653*/38-38-41
		654**47-49-52	660**51-52-55	660**51-52-55
52A	644	654*/39-39-43	660*/39-39-43	660*/39-39-43
		669**48-49-52	677**53-54-57	677**53-54-57
49	660	668*/40-41-44	672*/41-41-44	673*/41-41-44
		684**49-50-53	694**54-56-59	694**54-56-59
46	678	687*/42-43-46	690*/43-43-46	692*/43-43-46
		700**49-51-54	713**56-58-61	713**56-58-61
43	696	704*/43-44-48	709*/44-44-48	710*/44-44-48
		716**50-52-56	732**57-60-63	732**58-60-63
40	714	723*/45-46-50	726*/45-46-50	728*/46-46-50
		729**49-51-55	751**59-61-65	751**59-61-65
37	733	741*/46-48-52	745*/47-48-52	747*/47-48-52
		741**49-50-54	768**59-61-65	771**61-63-67
34	752	755B/47-49-53	764*/48-49-53	765*/48-49-53
		782**58-60-64	789**62-64-68	
31	769	758B/48-50-54	782*/49-51-55	783*/50-51-55
		790**56-58-62	790**56-58-62	
28	784	764B/48-50-55	803*/51-52-56	804*/51-52-56
		790**52-54-59	790**53-54-59	
25	796	769B/48-50-55	816*/51-52-57	821*/51-52-57
22	797	772B/48-51-56	817*/51-52-57	822*/51-52-57
19	798	776B/48-51-56	818*/51-52-57	823*/51-52-57
16	798	780B/49-51-56	819*/51-52-57	823*/51-52-57
13	799	784B/49-52-57	819*/51-52-57	824*/51-52-57
10	800	788B/50-52-57	820*/51-52-57	825*/51-52-57
5	800	799B/50-52-57	821*/51-52-57	826*/51-52-57
0	801	808*/50-52-57	822*/51-52-57	827*/51-52-57
-5	802	808*/50-52-57	823*/51-52-57	827*/51-52-57
-10	803	809*/50-52-57	823*/51-52-57	828*/51-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 780 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 150 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.26 PERCENT FOR TODA AND 0.26 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
13 443 11005 0 30 650 0 131 3962 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2582 FT

RUNWAY 31

ZBYN

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

WUSUJICHANG

TY/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10	
61A	598	578*/31-32-35	590*/33-33-37	594*/34-34-37		
		602**42-45-48	616**45-47-50	620**46-48-51		
58A	613	592*/32-33-37	605*/35-35-38	609*/36-36-39		
		617**44-47-50	631**47-49-52	636**48-49-52		
55A	629	607*/34-35-39	620*/36-37-40	625*/37-37-41		
		633**46-49-52	647**48-51-54	652**49-51-54		
52A	644	622*/35-37-41	636*/38-38-42	640*/39-39-42		
		648**47-50-54	663**50-52-55	668**51-53-56		
49	660	637*/37-38-42	651*/39-40-44	654*/40-40-44		
		664**49-52-56	679**51-54-57	684**52-55-58		
46	678	654*/38-40-44	668*/41-41-45	673*/41-42-46		
		682**50-54-58	697**53-56-59	702**54-56-60		
43	696	670*/40-41-46	685*/42-43-47	690*/43-43-47		
		698**52-55-59	714**54-57-61	720**55-58-62		
40	714	686*/41-43-47	701*/43-44-49	706*/44-45-49		
		710**50-54-58	731**56-59-63	737**57-60-63		
37	733	703*/42-44-49	718*/45-46-50	723*/45-46-51		
		723**49-53-57	749**57-61-65	755**58-61-65		
34	752	720*/43-46-51	735*/46-47-52	740*/47-48-52		
		734**49-52-57	767**58-62-66	772**59-63-67		
31	769	735*/44-47-52	751*/47-49-54	756*/48-49-54		
		745**48-51-56	779**58-61-66	789**61-65-69		
28	784	749*/45-48-54	764*/48-50-55	770*/49-51-55		
		755**47-51-56	790**57-61-65	790**56-59-63		
25	796	760*/46-49-55	776*/49-51-56	782*/50-52-56		
		763**47-50-56	790**53-56-61	790**52-55-59		
22	797	761*/46-49-55	778*/49-51-56	783*/50-52-57		
		766**48-51-56	790**53-56-61	790**52-54-59		
19	798	762*/46-50-55	778*/49-51-56	784*/50-52-57		
		768**48-52-57	790**53-56-60	790**52-54-59		
16	798	763*/46-50-55	779*/49-51-56	784*/50-52-57		
		770**49-52-58	790**52-55-60	790**52-54-59		
13	799	763*/46-50-55	779*/49-51-56	785*/50-52-57		
		772**49-53-58	790**52-55-60	790**51-54-59		
10	800	763*/46-50-55	780*/49-51-56	785*/50-52-57		
		774**50-54-59	790**52-55-60	790**51-54-58		
5	800	764*/47-50-55	781*/49-51-56	786*/50-52-57		
		778**51-55-60	790**52-55-60	790**51-53-58		
0	801	765*/47-50-55	781*/49-51-56	787*/50-52-57		
		781**52-56-61	790**52-55-59	790**51-53-58		
-5	802	765*/47-50-55	782*/49-52-57	787*/50-52-57		
		785**53-58-63	790**52-54-59	790**51-53-58		
-10	803	766*/47-50-55	782*/50-52-57	788*/50-52-57		
		788**55-59-64	790**52-54-59	790**51-53-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1470 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 150 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE -0.26 PERCENT FOR TODA AND -0.26 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
31 276 5338 0 991 16888 0 650 15697 0

13

250

0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2359 FT

RUNWAY 12

ZBZJ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				NINGYUANGJICHANG ZJK/NORTH CHINA
				DATED 10-JUN-2019
737-800	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10 0 10	
61A	602	564*/30-30-34	569*/31-31-35	571*/31-31-35
		582**38-39-43	602**44-45-48	604**44-45-48
58A	617	579*/31-32-36	585*/32-32-36	586*/32-32-36
		596**38-40-44	617**45-47-50	620**46-47-50
55A	633	593*/33-33-37	600*/34-34-38	602*/34-34-38
		609**39-41-45	632**46-48-52	636**48-49-52
52A	649	608*/34-35-39	616*/36-36-40	617*/36-36-40
		622**40-42-46	646**47-49-52	653**49-51-54
49	665	623*/35-36-41	632*/37-37-42	633*/37-37-42
		636**41-42-47	660**48-50-53	668**51-52-56
46	684	639*/37-38-43	649*/39-39-44	651*/39-39-44
		651**41-43-48	676**49-51-54	684**51-53-57
43	701	655*/38-39-44	666*/40-41-45	668*/41-41-46
		665**42-44-49	692**50-51-55	700**52-54-58
40	719	670*/40-41-46	682*/42-42-47	684*/42-42-47
		680**43-45-50	707**51-53-57	716**53-55-59
37	738	686*/41-42-48	698*/43-44-49	700*/44-44-49
		695**44-46-51	722**51-53-58	731**54-56-60
34	757	701*/42-44-49	714*/44-45-50	716*/45-45-51
		709**45-47-52	737**52-54-59	746**55-57-61
31	776	716*/43-45-51	731*/45-47-52	733*/46-47-52
		723**45-48-53	752**53-55-60	762**55-58-62
28	790	729*/44-46-52	744*/46-48-53	746*/47-48-53
		735**46-48-54	764**53-56-61	774**56-58-63
25	802	740*/45-47-53	755*/47-49-54	757*/48-49-54
		745**46-49-55	775**54-56-61	785**56-59-64
22	803	740*/45-47-53	755*/47-49-54	757*/48-49-55
		746**47-49-55	777**54-57-62	787**57-59-64
19	803	741*/45-47-53	755*/47-49-54	757*/48-49-55
		748**47-50-56	779**55-58-63	789**57-60-65
16	804	741*/45-47-53	755*/47-49-54	757*/48-49-54
		750**48-51-56	780**55-58-63	790**58-61-65
13	804	742*/45-47-53	755*/47-49-54	757*/48-49-54
		752**48-51-57	782**56-59-64	790**58-60-65
10	805	742*/45-47-53	754*/47-49-54	757*/48-49-54
		753**49-52-58	784**57-60-64	790**58-60-65
5	806	742*/45-47-53	754*/47-49-54	756*/48-49-54
		756**50-53-59	787**58-61-66	790**58-60-65
0	807	743*/45-47-53	753*/47-48-54	756*/48-49-54
		759**51-54-60	789**59-62-67	790**58-61-65
-5	808	743*/45-47-53	753*/47-48-54	755*/48-49-54
		762**52-55-61	790**59-62-67	790**58-61-66
-10	808	743*/45-47-53	752*/47-48-54	754*/48-48-54
		765**53-57-62	790**59-62-67	790**59-61-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2060 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.43 PERCENT FOR TODA AND 0.43 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

12	1411	21291	0
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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2359 FT

RUNWAY 30

ZBZJ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

NINGYUANGJICHANG

ZJK/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

58A	617	596*/32-34-37 609**39-41-44	610*/35-36-39 632**46-48-51	615*/36-36-39 638**48-50-53
55A	633	610*/34-35-39 622**39-42-45	626*/37-37-41 646**47-49-52	631*/38-38-41 653**49-51-54
52A	649	625*/35-37-41 636**40-43-46	641*/38-39-42 661**48-50-53	646*/39-39-43 669**50-52-56
49	665	641*/37-38-43 650**41-43-47	656*/40-40-44 676**48-51-54	662*/40-41-45 684**51-53-57
46	684	657*/38-40-44 665**42-44-48	674*/41-42-46 692**49-51-55	679*/42-43-46 701**52-54-58
43	701	674*/40-42-46 681**42-45-49	691*/42-43-48 708**50-52-56	696*/43-44-48 717**52-55-59
40	719	690*/41-43-48 696**43-46-50	707*/44-45-49 724**51-53-57	713*/45-46-50 734**53-56-60
37	738	708*/42-45-50 712**44-47-51	725*/45-47-51 741**51-54-58	731*/46-47-52 751**54-57-61
34	757	725*/43-46-51 727**44-47-52	743*/46-48-53 757**52-55-59	749*/47-49-53 767**54-57-62
31	776	741*/45-48-53	760*/47-50-54 773**52-56-60	766*/48-50-55 783**55-58-62
28	790	753F/45-49-54	774*/48-51-56 786**53-56-61	780*/49-52-56 790**53-56-60
25	802	762F/46-49-55	785*/49-52-57 790**51-54-59	791*/50-52-57
22	803	766F/46-50-55	786*/49-52-57 790**51-54-58	792*/50-52-57
19	803	768*/46-50-55	787*/49-52-57 790**50-53-58	793*/50-52-57
16	804	769*/47-50-55 770**47-51-56	788*/49-52-57 790**50-53-58	794*/50-52-57
13	804	769*/47-50-56 772**48-52-57	789*/50-52-57 790**50-53-58	795*/50-52-57
10	805	770*/47-50-56 775**48-52-57	790*/50-52-57	796*/50-52-57
5	806	772*/47-50-56 778**49-53-58	791*/50-52-57	797*/50-52-57
0	807	773*/47-51-56 781**50-54-59	792*/50-52-57	799*/50-52-57
-5	808	774*/47-51-56 785**51-55-60	794*/50-52-57	800*/50-52-57
-10	808	775*/47-51-56 788**52-57-62	795*/50-52-57	801*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 660 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY			RUNWAY SLOPES ARE -0.43 PERCENT FOR TODA AND -0.43 PERCENT FOR ASDA			LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M		
	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
30	322	5745	0	338	6610	0	220	4211	0
	223	4362	0	141	2521	0	282	4921	0
	207	3944	0	243	4253	0	449	7447	0
	187	3517	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 85 FT

RUNWAY 01 ZGBH

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

FUCHENGJICHANG
BH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	C 100KG	-10	0	10
61A	649	677*/39-40-43	694*/40-40-43	699*/40-40-43	
		669**46-48-51	682**53-55-58	682**53-55-58	
58A	665	692*/41-41-45	709*/41-41-45	715*/41-41-45	
		683**47-48-52	699**54-56-59	699**55-56-59	
55A	681	708*/42-43-46	726*/43-43-46	731*/43-43-46	
		697**48-49-52	715**55-57-61	716**56-58-61	
52	699	725*/44-44-48	744*/44-44-48	749*/44-44-48	
		713**48-50-53	732**56-58-62	735**58-60-63	
49	718	741F/45-46-50	762*/46-46-50	769*/46-46-50	
		730**49-50-54	750**57-59-62	755**59-62-65	
46	738	755F/46-48-52	782*/47-48-52	788*/47-48-52	
		747**49-51-55	768**57-59-63	774**60-62-66	
43	757	769F/48-50-54	800*/49-50-54	807*/49-50-54	
		763**50-52-56	786**58-60-64	790**60-62-66	
40	777	783F/49-51-56	819*/50-51-56	826*/50-51-56	
		779**50-52-56	790**54-56-60	790**54-56-60	
37	797	787B/49-52-57	837*/51-52-57	844*/51-52-57	
34	817	795B/49-52-57	852*/50-52-57	859*/50-52-57	
31	838	806B/48-52-57	862F/49-52-57	862F/50-52-57	
28	847	815B/48-52-58	862F/49-52-58	862F/49-52-58	
25	848	823B/48-52-58	862F/49-52-58	862F/49-52-58	
22	849	831B/48-52-58	862F/49-52-58	862F/49-52-58	
19	850	839B/48-52-58	862F/49-52-58	862F/49-52-58	
16	851	847F/48-51-58	862F/49-51-58	862F/50-51-58	
13	852	851F/48-51-58	862F/49-51-58	862F/50-51-58	
10	852	855F/48-51-58	862F/49-51-58	862F/50-51-58	
5	854	862F/48-51-58	862F/49-51-58	862F/50-51-58	
0	855	862F/48-51-58	862F/49-51-58	862F/50-51-58	
-5	856	862F/48-51-58	862F/49-51-58	862F/50-51-58	
-10	856	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 330 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.13 PERCENT FOR TODA AND 0.13 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 30 1060 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 85 FT

RUNWAY 19 ZGBH

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			FUCHENG JICHANG BH/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10
61A	649	675*/39-40-43	693*/40-40-43	699*/40-40-43	
		671**47-48-51	682**53-55-58	682**53-55-58	
58A	665	690*/40-41-45	709*/41-41-45	715*/41-41-45	
		685**47-49-52	699**54-56-59	699**54-56-59	
55A	681	705*/42-43-46	724*/42-43-46	731*/43-43-46	
		699**48-50-53	716**56-58-61	716**56-58-61	
52	699	722*/43-44-48	742*/44-44-48	749*/44-44-48	
		715**48-50-54	734**56-59-62	735**57-60-63	
49	718	740*/45-46-50	760*/45-46-50	767*/46-46-50	
		732**49-51-55	751**57-60-63	755**59-62-65	
46	738	758*/46-48-52	779*/47-48-52	786*/47-48-52	
		749**49-52-56	770**58-60-64	775**60-63-67	
43	757	774F/47-50-54	797*/48-50-54	805*/48-50-54	
		766**50-53-57	788**58-61-65	790**59-62-66	
40	777	784B/49-51-56	816*/50-51-56	824*/50-51-56	
		779**49-52-56	790**54-56-60	790**54-56-60	
37	797	786B/49-52-57	834*/50-52-57	841*/51-52-57	
34	817	793B/49-52-57	849*/50-52-57	857*/50-52-57	
31	838	803B/48-52-57	862F/49-52-57	862F/49-52-57	
28	847	813B/48-52-58	862F/49-52-58	862F/49-52-58	
25	848	821B/48-52-58	862F/49-52-58	862F/49-52-58	
22	849	829B/48-52-58	862F/49-52-58	862F/49-52-58	
19	850	837B/48-52-58	862F/49-52-58	862F/49-52-58	
16	851	845B/48-51-58	862F/49-51-58	862F/49-51-58	
13	852	853B/48-51-58	862F/49-51-58	862F/49-51-58	
10	852	857*/48-51-58	862F/49-51-58	862F/49-51-58	
5	854	860*/48-51-58	862F/49-51-58	862F/49-51-58	
0	855	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 380 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.13 PERCENT FOR TODA AND -0.13 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19 33 1060 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 01 ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10	
61A	650	565*/28-29-35	582*/31-31-36	588*/32-32-37		
		583**38-42-46	601**42-44-48	608**43-45-49		
58A	666	579*/29-31-36	596*/33-33-38	602*/34-34-39		
		597**40-43-48	616**43-46-50	622**44-46-51		
55A	682	593*/31-32-38	611*/34-34-40	617*/35-35-40		
		611**41-45-50	631**45-47-52	637**46-48-53		
52	700	609*/32-34-40	627*/36-36-42	633*/37-37-42		
		627**43-47-52	647**46-49-54	653**48-50-55		
49	719	625*/34-35-42	643*/37-38-43	650*/38-38-44		
		644**44-48-54	664**48-51-56	671**49-52-56		
46	739	641*/35-37-43	660*/38-39-45	666*/40-40-46		
		661**46-50-56	681**50-53-58	688**51-53-58		
43	758	658*/37-39-45	677*/40-41-47	683*/41-42-48		
		677**48-52-57	698**51-54-60	705**52-55-60		
40	778	673*/38-40-47	692*/41-42-49	699*/42-43-49		
		693**49-53-59	714**52-56-61	721**53-57-62		
37	798	688*/39-41-48	708*/42-44-50	715*/43-44-51		
		708**50-55-61	730**53-57-63	737**54-58-64		
34	818	705*/40-43-50	725*/43-45-52	732*/44-46-52		
		726**51-57-63	748**55-59-65	756**56-60-66		
31	839	722*/41-45-52	744*/45-47-54	751*/46-48-54		
		744**53-58-64	767**56-61-67	775**57-62-67		
28	847	729*/42-45-53	751*/45-47-54	758*/46-48-55		
		751**53-59-65	775**57-62-67	782**58-62-68		
25	849	730*/42-45-53	752*/45-48-54	759*/46-48-55		
		753**53-59-65	776**57-62-68	784**58-63-68		
22	850	731*/42-45-53	753*/45-48-55	760*/46-48-55		
		753**53-59-65	777**57-62-68	785**58-63-68		
19	850	732*/42-45-53	753*/45-48-55	761*/47-48-55		
		754**53-59-66	778**57-62-68	786**58-63-69		
16	851	732*/42-45-53	754*/46-48-55	762*/47-48-55		
		755**53-59-66	779**57-62-68	787**58-63-69		
13	852	733*/42-45-53	755*/46-48-55	762*/47-49-55		
		756**54-59-66	780**57-62-68	788**58-63-69		
10	853	734*/42-46-53	756*/46-48-55	763*/47-49-55		
		757**54-60-66	781**57-62-68	789**59-63-69		
5	854	735*/43-46-53	757*/46-48-55	764*/47-49-56		
		758**54-60-66	782**58-62-68	790**59-63-69		
0	856	736*/43-46-53	758*/46-48-55	765*/47-49-56		
		759**54-60-66	783**58-62-68	790**58-63-68		
-5	856	736*/43-46-53	759*/46-48-55	766*/47-49-56		
		760**54-60-66	784**58-63-68	790**58-62-68		
-10	857	736*/43-46-53	759*/46-48-55	767*/47-49-56		
		760**54-60-66	784**58-63-68	790**58-62-67		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2280 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.17 PERCENT FOR TODA AND 0.17 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 1378 13200 0 1509 15300 0 1411 17800 0
 1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 01/F9 ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10	
61A	650	563*/28-29-34	581*/31-31-36	587*/32-32-37		
		581**38-41-46	600**41-44-48	606**43-45-49		
58A	666	577*/29-30-36	595*/32-33-38	601*/33-33-39		
		595**39-43-48	614**43-45-50	620**44-46-51		
55A	682	591*/30-32-38	609*/34-34-40	615*/35-35-40		
		609**41-44-49	628**44-47-52	635**46-48-52		
52	700	607*/32-33-40	625*/35-36-41	631*/36-37-42		
		625**43-46-51	645**46-49-54	651**47-50-54		
49	719	623*/33-35-41	641*/37-37-43	648*/38-38-44		
		642**44-48-53	662**48-51-56	669**49-51-56		
46	739	639*/35-37-43	658*/38-39-45	665*/39-40-46		
		658**46-50-55	679**49-52-57	686**50-53-58		
43	758	655*/36-38-45	675*/40-41-47	682*/41-41-47		
		675**47-52-57	696**51-54-59	703**52-55-60		
40	778	670*/38-40-47	690*/41-42-48	697*/42-43-49		
		690**49-53-59	712**52-56-61	719**53-56-62		
37	798	686*/39-41-48	706*/42-43-50	713*/43-44-51		
		706**50-55-60	728**53-57-63	735**54-58-63		
34	818	703*/40-43-50	723*/43-45-52	730*/44-46-52		
		723**51-56-62	746**54-59-65	753**56-60-65		
31	839	720*/41-44-52	741*/44-47-53	749*/46-47-54		
		742**52-58-64	765**56-61-66	772**57-62-67		
28	847	727*/42-45-52	748*/45-47-54	756*/46-48-55		
		749**53-59-65	772**56-61-67	780**58-62-68		
25	849	728*/42-45-52	750*/45-47-54	757*/46-48-55		
		750**53-59-65	773**57-61-67	781**58-62-68		
22	850	729*/42-45-53	750*/45-47-54	758*/46-48-55		
		751**53-59-65	774**57-62-67	782**58-62-68		
19	850	729*/42-45-53	751*/45-47-54	759*/46-48-55		
		752**53-59-65	775**57-62-68	783**58-63-68		
16	851	730*/42-45-53	752*/45-47-55	759*/46-48-55		
		752**53-59-65	776**57-62-68	784**58-63-68		
13	852	731*/42-45-53	753*/45-48-55	760*/47-48-55		
		753**53-59-65	777**57-62-68	785**58-63-68		
10	853	732*/42-45-53	754*/46-48-55	761*/47-48-55		
		754**53-59-66	778**57-62-68	786**58-63-69		
5	854	733*/42-45-53	755*/46-48-55	762*/47-49-55		
		755**54-59-66	779**57-62-68	787**58-63-69		
0	856	733*/42-45-53	756*/46-48-55	763*/47-49-56		
		756**54-59-66	780**57-62-68	789**59-63-69		
-5	856	734*/43-45-53	756*/46-48-55	764*/47-49-56		
		757**54-59-66	781**58-62-68	790**59-63-69		
-10	857	734*/43-45-53	757*/46-48-55	764*/47-49-56		
		757**54-60-66	782**58-62-68	790**59-63-69		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2270 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3380 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.17 PERCENT FOR TODA AND 0.17 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
01/F9 1378 13200 0 1509 15300 0 1411 17800 0
1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02L ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	650	556*/27-28-34 573**37-40-45	573*/30-30-36 592**40-43-47	579*/31-31-36 598**41-44-48
58A	666	569*/28-29-35 587**38-42-47	587*/32-32-37 606**42-44-49	593*/32-32-38 612**43-45-50
55A	682	583*/29-31-37 601**40-43-48	601*/33-33-39 620**43-46-51	608*/34-34-39 627**45-47-51
52	700	599*/31-32-39 617**41-45-50	617*/34-35-41 636**45-48-53	623*/35-36-41 643**46-49-53
49	719	614*/32-34-41 633**43-47-52	633*/36-36-42 653**47-50-55	640*/37-37-43 660**48-50-55
46	739	631*/34-36-42 649**45-49-54	650*/37-38-44 670**48-51-57	656*/38-39-45 677**49-52-57
43	758	647*/35-37-44 666**46-50-56	666*/39-40-46 687**50-53-58	673*/40-40-47 694**51-54-59
40	778	661*/36-39-46 681**47-52-58	681*/40-41-48 702**51-54-60	688*/41-42-48 710**52-55-61
37	798	676*/38-40-47 696**48-53-59	697*/41-42-49 718**52-56-62	703*/42-43-50 725**53-57-62
34	818	693*/39-42-49 713**50-55-61	714*/42-44-51 735**53-58-64	721*/43-45-52 743**55-59-64
31	839	710*/40-43-51 731**51-57-63	731*/43-45-53 754**55-59-65	739*/45-46-53 762**56-60-66
28	847	717*/41-44-52 738**52-57-64	738*/44-46-53 761**55-60-66	746*/45-47-54 769**57-61-67
25	849	718*/41-44-52 739**52-58-64	740*/44-46-53 762**55-60-66	747*/45-47-54 770**57-61-67
22	850	718*/41-44-52 740**52-58-64	740*/44-46-54 763**56-60-66	748*/45-47-54 771**57-61-67
19	850	719*/41-44-52 741**52-58-64	741*/44-46-54 764**56-60-66	749*/45-47-54 772**57-61-67
16	851	720*/41-44-52 741**52-58-64	742*/44-46-54 765**56-60-67	749*/45-47-54 773**57-61-67
13	852	720*/41-44-52 742**52-58-64	743*/44-46-54 766**56-61-67	750*/46-47-54 774**57-61-67
10	853	721*/41-44-52 743**52-58-64	743*/45-47-54 767**56-61-67	751*/46-47-54 775**57-62-68
5	854	722*/41-44-52 744**52-58-65	744*/45-47-54 768**56-61-67	752*/46-47-55 776**57-62-68
0	856	723*/41-44-52 745**52-58-65	745*/45-47-54 769**56-61-67	753*/46-48-55 777**57-62-68
-5	856	723*/42-44-52 746**53-58-65	746*/45-47-54 770**56-61-67	754*/46-48-55 778**58-62-68
-10	857	723*/42-44-52 746**53-58-65	746*/45-47-54 770**56-61-67	754*/46-48-55 779**58-62-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2250 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.24 PERCENT FOR TODA AND 0.24 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02L 951 10900 0 1342 17800 0 1722 38700 0
 1542 13700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02L/A9 ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10	
61A	650	554*/27-28-34	572*/30-30-35	578*/31-31-36		
		571**37-40-45	590**40-42-47	596**41-43-48		
58A	666	568*/28-29-35	586*/31-31-37	592*/32-32-38		
		585**38-41-46	604**42-44-49	610**43-45-49		
55A	682	581*/29-31-37	600*/33-33-39	606*/34-34-39		
		599**39-43-48	618**43-46-50	625**44-47-51		
52	700	597*/31-32-39	615*/34-35-40	622*/35-35-41		
		615**41-45-50	634**45-47-52	641**46-48-53		
49	719	613*/32-34-40	632*/36-36-42	638*/37-37-43		
		631**43-47-52	651**46-49-54	658**48-50-55		
46	739	629*/34-36-42	648*/37-38-44	655*/38-39-45		
		647**44-48-54	668**48-51-56	675**49-52-57		
43	758	645*/35-37-44	665*/38-39-46	671*/40-40-46		
		663**46-50-56	685**49-53-58	692**51-54-59		
40	778	659*/36-39-46	679*/40-41-47	686*/41-42-48		
		678**47-52-58	700**51-54-60	707**52-55-61		
37	798	674*/37-40-47	695*/41-42-49	701*/42-43-50		
		693**48-53-59	715**52-56-61	723**53-57-62		
34	818	691*/39-41-49	712*/42-44-51	719*/43-44-51		
		710**49-55-61	733**53-57-63	741**54-58-64		
31	839	708*/40-43-51	729*/43-45-52	737*/44-46-53		
		728**51-56-63	751**54-59-65	759**56-60-66		
28	847	715*/41-44-51	736*/44-46-53	744*/45-47-54		
		735**51-57-64	759**55-60-66	767**56-61-67		
25	849	716*/41-44-51	737*/44-46-53	745*/45-47-54		
		736**51-57-64	760**55-60-66	768**56-61-67		
22	850	716*/41-44-52	738*/44-46-53	746*/45-47-54		
		737**52-57-64	761**55-60-66	769**56-61-67		
19	850	717*/41-44-52	739*/44-46-53	746*/45-47-54		
		738**52-57-64	762**55-60-66	770**57-61-67		
16	851	718*/41-44-52	740*/44-46-53	747*/45-47-54		
		739**52-57-64	763**55-60-66	771**57-61-67		
13	852	718*/41-44-52	740*/44-46-54	748*/45-47-54		
		740**52-58-64	763**56-60-66	772**57-61-67		
10	853	719*/41-44-52	741*/44-46-54	749*/45-47-54		
		740**52-58-64	764**56-60-66	772**57-61-67		
5	854	720*/41-44-52	742*/45-46-54	750*/46-47-54		
		741**52-58-64	766**56-60-67	774**57-61-67		
0	856	721*/41-44-52	743*/45-46-54	751*/46-47-54		
		742**52-58-64	767**56-61-67	775**57-62-68		
-5	856	721*/41-44-52	744*/45-47-54	752*/46-47-55		
		743**52-58-64	768**56-61-67	776**57-62-68		
-10	857	721*/41-44-52	744*/45-47-54	752*/46-47-55		
		743**52-58-64	768**56-61-67	776**57-62-68		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595
 MINIMUM FLAP RETRACTION HEIGHT IS 2250 FT
 LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3580 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.24 PERCENT FOR TODA AND 0.24 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02L/A9 951 10900 0 1342 17800 0 1722 38700 0
 1542 13700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02R ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	650	557*/27-28-34 574**37-40-45	575*/30-30-36 593**40-43-47	581*/31-31-36 599**41-44-48
58A	666	571*/28-29-35 588**38-42-47	589*/31-32-37 607**42-44-49	595*/33-33-38 613**43-45-50
55A	682	585*/29-31-37 602**40-44-49	603*/33-33-39 622**43-46-51	609*/34-34-40 628**44-47-52
52	700	600*/31-33-39 618**41-45-51	619*/34-35-41 638**45-48-53	625*/35-36-41 644**46-49-54
49	719	616*/32-34-41 634**43-47-52	635*/36-37-43 654**47-50-55	641*/37-37-43 661**48-51-56
46	739	632*/34-36-43 651**44-49-54	651*/37-38-44 671**48-51-57	658*/38-39-45 678**49-52-57
43	758	648*/35-38-44 667**46-51-56	668*/39-40-46 688**50-53-59	675*/40-41-47 696**51-54-59
40	778	663*/36-39-46 682**47-52-58	683*/40-41-48 704**51-55-60	690*/41-42-48 711**52-56-61
37	798	678*/38-40-48 697**48-54-60	698*/41-43-49 719**52-56-62	705*/42-43-50 727**53-57-63
34	818	694*/39-42-49 714**50-55-61	715*/42-44-51 737**53-58-64	722*/43-45-52 745**54-59-64
31	839	712*/40-43-51 732**51-57-63	733*/43-46-53 756**55-60-66	740*/44-46-53 763**56-60-66
28	847	718*/41-44-52 739**51-58-64	740*/44-46-53 763**55-60-66	748*/45-47-54 771**56-61-67
25	849	719*/41-44-52 741**52-58-64	741*/44-46-54 764**55-60-66	749*/45-47-54 772**57-61-67
22	850	720*/41-44-52 741**52-58-64	742*/44-46-54 765**55-60-67	750*/45-47-54 773**57-61-67
19	850	721*/41-44-52 742**52-58-64	743*/44-47-54 766**56-61-67	750*/45-47-54 774**57-61-67
16	851	721*/41-44-52 743**52-58-64	744*/44-47-54 767**56-61-67	751*/45-47-54 775**57-62-67
13	852	722*/41-44-52 744**52-58-64	744*/44-47-54 768**56-61-67	752*/46-47-55 776**57-62-68
10	853	723*/41-44-52 745**52-58-65	745*/45-47-54 769**56-61-67	753*/46-48-55 777**57-62-68
5	854	724*/41-44-52 746**52-58-65	746*/45-47-54 770**56-61-67	754*/46-48-55 778**57-62-68
0	856	725*/41-44-52 747**52-58-65	747*/45-47-54 771**56-61-67	755*/46-48-55 779**57-62-68
-5	856	725*/42-45-52 747**52-58-65	748*/45-47-54 772**56-61-67	756*/46-48-55 780**58-62-68
-10	857	725*/42-45-52 748**52-58-65	748*/45-47-54 772**56-61-67	756*/46-48-55 781**58-62-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2230 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R 950 10900 0 1542 13700 0 1342 17800 0
 1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02R/M9 ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG

GZ/SOUTHCENTRAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10	
61A	650	554*/26-28-33	571*/30-30-35	577*/31-31-36		
		570**36-40-45	589**40-42-47	595**41-43-48		
58A	666	567*/28-29-35	585*/31-31-37	591*/32-32-38		
		584**38-41-46	603**41-44-49	610**42-45-49		
55A	682	581*/29-30-37	599*/32-33-39	605*/33-34-39		
		598**39-43-48	618**43-46-50	624**44-46-51		
52	700	596*/30-32-38	615*/34-35-40	621*/35-35-41		
		613**41-45-50	634**44-47-52	640**46-48-53		
49	719	612*/32-34-40	631*/35-36-42	638*/36-37-43		
		630**42-46-52	650**46-49-54	657**47-50-55		
46	739	628*/33-35-42	647*/37-38-44	654*/38-39-45		
		646**44-48-54	667**48-51-56	674**49-52-57		
43	758	644*/35-37-44	664*/38-39-46	671*/39-40-46		
		662**45-50-56	684**49-53-58	691**50-53-59		
40	778	658*/36-38-46	679*/39-41-47	686*/40-42-48		
		677**47-51-57	699**50-54-60	706**51-55-60		
37	798	673*/37-40-47	694*/40-42-49	701*/42-43-50		
		692**48-53-59	714**51-56-61	722**52-56-62		
34	818	690*/38-41-49	711*/42-44-51	718*/43-44-51		
		709**49-55-61	732**53-57-63	740**54-58-64		
31	839	707*/40-43-51	729*/43-45-52	736*/44-46-53		
		727**50-56-63	750**54-59-65	758**55-60-66		
28	847	714*/40-43-51	736*/43-46-53	743*/45-47-54		
		734**51-57-64	758**55-60-66	766**56-61-67		
25	849	715*/40-43-51	737*/44-46-53	744*/45-47-54		
		735**51-57-64	759**55-60-66	767**56-61-67		
22	850	715*/40-44-51	738*/44-46-53	745*/45-47-54		
		736**51-57-64	760**55-60-66	768**56-61-67		
19	850	716*/40-44-52	738*/44-46-53	746*/45-47-54		
		737**51-57-64	761**55-60-66	769**56-61-67		
16	851	717*/41-44-52	739*/44-46-53	747*/45-47-54		
		738**51-57-64	762**55-60-66	770**56-61-67		
13	852	717*/41-44-52	740*/44-46-54	748*/45-47-54		
		738**51-57-64	763**55-60-66	771**56-61-67		
10	853	718*/41-44-52	741*/44-46-54	748*/45-47-54		
		739**51-57-64	763**55-60-66	772**56-61-67		
5	854	719*/41-44-52	742*/44-46-54	750*/45-47-54		
		740**52-58-64	765**55-60-67	773**57-61-67		
0	856	720*/41-44-52	743*/44-46-54	751*/45-47-54		
		741**52-58-64	766**56-60-67	774**57-61-67		
-5	856	720*/41-44-52	743*/44-46-54	751*/46-47-55		
		742**52-58-64	767**56-61-67	775**57-62-68		
-10	857	721*/41-44-52	744*/45-47-54	752*/46-47-55		
		742**52-58-64	767**56-61-67	776**57-62-68		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2210 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3372 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R/M9 951 10900 0 1542 13700 0 1342 17800 0
 1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02R/Y17 ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	650	555*/27-28-34 572**36-40-45	573*/30-30-35 591**40-43-47	579*/31-31-36 597**41-43-48
58A	666	569*/28-29-35 586**38-42-47	587*/31-32-37 605**42-44-49	593*/32-32-38 611**43-45-50
55A	682	583*/29-31-37 600**39-43-48	601*/33-33-39 620**43-46-51	607*/34-34-39 626**44-47-51
52	700	598*/31-32-39 616**41-45-50	617*/34-35-41 636**45-48-53	623*/35-36-41 642**46-49-53
49	719	614*/32-34-41 632**43-47-52	633*/36-36-42 652**46-49-55	639*/37-37-43 659**47-50-55
46	739	630*/34-36-42 648**44-49-54	649*/37-38-44 669**48-51-56	656*/38-39-45 676**49-52-57
43	758	646*/35-37-44 665**46-50-56	666*/38-40-46 686**49-53-58	673*/40-40-47 693**50-54-59
40	778	661*/36-39-46 680**47-52-58	681*/40-41-48 701**50-54-60	688*/41-42-48 709**52-55-61
37	798	675*/37-40-47 695**48-53-59	696*/41-42-49 717**52-56-62	703*/42-43-50 724**53-57-62
34	818	692*/39-42-49 712**49-55-61	713*/42-44-51 734**53-58-63	720*/43-45-51 742**54-58-64
31	839	709*/40-43-51 730**51-57-63	731*/43-45-53 753**54-59-65	738*/44-46-53 761**56-60-66
28	847	716*/40-44-51 737**51-57-64	738*/44-46-53 760**55-60-66	745*/45-47-54 768**56-61-67
25	849	717*/41-44-52 738**51-57-64	739*/44-46-53 761**55-60-66	746*/45-47-54 769**56-61-67
22	850	718*/41-44-52 739**51-57-64	740*/44-46-53 762**55-60-66	747*/45-47-54 770**56-61-67
19	850	718*/41-44-52 739**51-58-64	741*/44-46-54 763**55-60-66	748*/45-47-54 771**56-61-67
16	851	719*/41-44-52 740**52-58-64	741*/44-46-54 764**55-60-66	749*/45-47-54 772**57-61-67
13	852	720*/41-44-52 741**52-58-64	742*/44-46-54 765**55-60-67	750*/45-47-54 773**57-61-67
10	853	720*/41-44-52 742**52-58-64	743*/44-46-54 766**56-61-67	750*/45-47-54 774**57-61-67
5	854	721*/41-44-52 743**52-58-64	744*/44-47-54 767**56-61-67	752*/46-47-55 776**57-62-68
0	856	722*/41-44-52 744**52-58-65	745*/45-47-54 768**56-61-67	753*/46-47-55 777**57-62-68
-5	856	723*/41-44-52 745**52-58-65	746*/45-47-54 769**56-61-67	753*/46-48-55 778**57-62-68
-10	857	723*/41-44-52 745**52-58-65	746*/45-47-54 770**56-61-67	754*/46-48-55 778**57-62-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2220 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3580 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R/Y17 951 10900 0 1542 13700 0 1342 17800 0
 1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 19 ZGGG

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	BAIYUNJICHANG GZ/SOUTHCENTRAL DATED 10-JUN-2019
737-800		CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10	0	10
61A	650	719F/39-40-43	757F/40-40-43	770F/40-40-43	
		683**52-55-58	683**53-55-58	683**53-55-58	
58A	666	733F/40-41-45	772F/41-41-45	785F/41-41-45	
		698**53-56-59	700**54-56-59	700**54-56-59	
55A	682	747F/42-43-47	788F/43-43-47	800F/43-43-47	
		714**54-56-60	717**56-58-61	717**56-58-61	
52	700	762F/43-44-48	805F/44-44-48	818F/44-44-48	
		729**54-56-60	736**57-60-63	736**58-60-63	
49	719	778F/45-46-50	823F/46-46-50	836F/46-46-50	
		742**52-55-59	756**59-62-65	756**59-62-65	
46	739	792F/46-48-52	838F/47-48-52	854F/47-48-52	
		755**51-54-58	777**61-64-67	777**61-64-67	
43	758	794B/48-50-54	853F/48-50-54	862F/49-50-54	
		768**50-53-57	790**59-62-66	790**59-62-66	
40	778	785B/49-51-56	862F/50-51-56	862F/50-51-56	
		780**50-52-56	790**53-56-60	790**54-56-60	
37	798	787B/49-52-57	862F/50-52-57	862F/51-52-57	
34	818	795B/49-52-57	862F/50-52-57	862F/50-52-57	
31	839	806B/48-52-58	862F/49-52-58	862F/49-52-58	
28	847	815B/48-52-58	862F/49-52-58	862F/49-52-58	
25	849	823B/48-52-58	862F/49-52-58	862F/49-52-58	
22	850	831B/48-52-58	862F/49-52-58	862F/49-52-58	
19	850	839B/48-52-58	862F/49-52-58	862F/49-52-58	
16	851	847B/48-51-58	862F/49-51-58	862F/49-51-58	
13	852	855B/48-51-58	862F/49-51-58	862F/49-51-58	
10	853	862F/48-51-58	862F/49-51-58	862F/49-51-58	
5	854	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	857	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

19 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 19/F2 ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	650	698F/39-40-43	738F/40-40-43	750F/40-40-43
		675**48-50-53	683**53-55-58	683**53-55-58
58A	666	711F/40-41-45	753F/41-41-45	765F/41-41-45
		690**49-51-54	700**54-56-59	700**54-56-59
55A	682	725F/42-43-47	767F/43-43-47	780F/43-43-47
		704**50-52-55	717**56-58-61	717**56-58-61
52	700	740F/43-44-48	783F/44-44-48	797F/44-44-48
		721**50-53-56	736**57-60-63	736**58-60-63
49	719	755F/45-46-50	799F/46-46-50	815F/46-46-50
		738**51-53-57	756**59-62-65	756**59-62-65
46	739	771F/46-48-52	816F/47-48-52	832F/47-48-52
		755**51-54-58	775**60-63-66	777**61-64-67
43	758	785F/48-50-54	833F/48-50-54	848F/49-50-54
		768**50-53-57	790**59-62-66	790**59-62-66
40	778	785B/49-51-56	848F/50-51-56	862F/50-51-56
		780**50-52-56	790**53-56-60	790**54-56-60
37	798	787B/49-52-57	862F/50-52-57	862F/51-52-57
34	818	795B/49-52-57	862F/50-52-57	862F/50-52-57
31	839	806B/48-52-58	862F/49-52-58	862F/49-52-58
28	847	815B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	823B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	831B/48-52-58	862F/49-52-58	862F/49-52-58
19	850	839B/48-52-58	862F/49-52-58	862F/49-52-58
16	851	847B/48-51-58	862F/49-51-58	862F/49-51-58
13	852	855B/48-51-58	862F/49-51-58	862F/49-51-58
10	853	862F/48-51-58	862F/49-51-58	862F/49-51-58
5	854	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	857	862F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3380 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
19/F2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 20L ZGGG

*** FLAPS 05 ***		AIR COND AUTO	ANTI-ICE OFF	BAIYUNJICHANG GZ/SOUTHCENTRAL DATED 10-JUN-2019
737-800	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	-10	0	10
C	100KG			
61A	650	738F/39-40-43	774F/40-40-43	787F/40-40-43
		683**52-55-58	683**53-55-58	683**53-55-58
58A	666	752F/40-41-45	789F/41-41-45	802F/41-41-45
		700**54-56-59	700**54-56-59	700**55-56-59
55A	682	766F/42-43-47	805F/43-43-47	818F/43-43-47
		716**55-58-61	717**56-58-61	717**56-58-61
52	700	779F/43-44-48	822F/44-44-48	835F/44-44-48
		729**54-56-60	736**57-60-63	736**58-60-63
49	719	794F/45-46-50	840F/46-46-50	854F/46-46-50
		742**52-55-59	756**59-62-65	756**59-62-65
46	739	803B/46-48-52	855F/47-48-52	862F/47-48-52
		755**51-54-58	777**61-64-67	777**61-64-67
43	758	794B/48-50-54	862F/48-50-54	862F/49-50-54
		768**50-53-57	790**59-62-66	790**59-62-66
40	778	785B/49-51-56	862F/50-51-56	862F/50-51-56
		780**50-52-56	790**54-56-60	790**54-56-60
37	798	787B/49-52-57	862F/50-52-57	862F/51-52-57
34	818	795B/49-52-57	862F/50-52-57	862F/50-52-57
31	839	806B/48-52-58	862F/49-52-58	862F/49-52-58
28	847	815B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	823B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	831B/48-52-58	862F/49-52-58	862F/49-52-58
19	850	839B/48-52-58	862F/49-52-58	862F/49-52-58
16	851	847B/48-51-58	862F/49-51-58	862F/49-51-58
13	852	856B/48-51-58	862F/49-51-58	862F/49-51-58
10	853	862F/48-51-58	862F/49-51-58	862F/49-51-58
5	854	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	857	862F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

20L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 20L/Y14 ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	C 100KG	-10	0	10
61A	650	717F/39-40-43	755F/40-40-43	768F/40-40-43	
		683**52-54-57	683**53-55-58	683**53-55-58	
58A	666	731F/40-41-45	770F/41-41-45	783F/41-41-45	
		698**53-55-58	700**54-56-59	700**55-56-59	
55A	682	745F/42-43-47	786F/43-43-47	798F/43-43-47	
		713**53-56-59	717**56-58-61	717**56-58-61	
52	700	760F/43-44-48	803F/44-44-48	815F/44-44-48	
		729**54-56-60	736**57-60-63	736**58-60-63	
49	719	776F/45-46-50	821F/46-46-50	833F/46-46-50	
		742**52-55-59	756**59-62-65	756**59-62-65	
46	739	790F/46-48-52	836F/47-48-52	852F/47-48-52	
		755**51-54-58	777**61-64-67	777**61-64-67	
43	758	794B/48-50-54	851F/48-50-54	862F/49-50-54	
		768**50-53-57	790**59-62-66	790**59-62-66	
40	778	785B/49-51-56	862F/50-51-56	862F/50-51-56	
		780**50-52-56	790**54-56-60	790**54-56-60	
37	798	787B/49-52-57	862F/50-52-57	862F/51-52-57	
34	818	795B/49-52-57	862F/50-52-57	862F/50-52-57	
31	839	806B/48-52-58	862F/49-52-58	862F/49-52-58	
28	847	815B/48-52-58	862F/49-52-58	862F/49-52-58	
25	849	823B/48-52-58	862F/49-52-58	862F/49-52-58	
22	850	831B/48-52-58	862F/49-52-58	862F/49-52-58	
19	850	839B/48-52-58	862F/49-52-58	862F/49-52-58	
16	851	847B/48-51-58	862F/49-51-58	862F/49-51-58	
13	852	856B/48-51-58	862F/49-51-58	862F/49-51-58	
10	853	862F/48-51-58	862F/49-51-58	862F/49-51-58	
5	854	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	857	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3580 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
20L/Y14 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 20R ZGGG

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	BAIYUNJICHANG GZ/SOUTHCENTRAL			
737-800		CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE								
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)								
C	100KG	-10	0	10				
61A	650	742F/39-40-43 683**52-55-58	782F/40-40-43 683**53-55-58	794F/40-40-43 683**53-55-58				
58A	666	756F/40-41-45 700**53-56-59	797F/41-41-45 700**54-56-59	810F/41-41-45 700**54-56-59				
55A	682	770F/42-43-47 716**54-57-61	813F/42-43-47 717**56-58-61	826F/43-43-47 717**56-58-61				
52	700	784F/43-44-48 729**53-56-59	829F/44-44-48 736**57-60-63	844F/44-44-48 736**57-60-63				
49	719	798F/44-46-50 742**52-55-58	845F/45-46-50 756**59-62-65	861F/46-46-50 756**59-62-65				
46	739	801B/46-48-52 755**51-54-58	860F/47-48-52 777**61-64-67	862F/47-48-52 777**61-64-67				
43	758	792B/47-50-54 767**50-53-57	862F/48-50-54 790**59-62-66	862F/48-50-54 790**59-62-66				
40	778	784B/49-51-56 779**49-52-56	862F/50-51-56 790**53-56-60	862F/50-51-56 790**53-56-60				
37	798	786B/49-52-57 804B/48-52-58	862F/50-52-57 862F/49-52-58	862F/50-52-57 862F/49-52-58				
34	818	793B/49-52-57 813B/48-52-58	862F/50-52-57 862F/49-52-58	862F/50-52-57 862F/49-52-58				
31	839	804B/48-52-58 813B/48-52-58	862F/49-52-58 862F/49-52-58	862F/49-52-58 862F/49-52-58				
28	847	821B/48-52-58 829B/48-52-58	862F/49-52-58 862F/49-52-58	862F/49-52-58 862F/49-52-58				
25	849	829B/48-52-58 837B/48-52-58	862F/49-52-58 862F/49-52-58	862F/49-52-58 862F/49-52-58				
22	850	837B/48-52-58 845B/48-51-58	862F/49-52-58 862F/49-51-58	862F/49-52-58 862F/49-51-58				
19	850	845B/48-51-58 853B/48-51-58	862F/49-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58				
16	851	853B/48-51-58 861B/48-51-58	862F/49-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58				
13	852	861B/48-51-58 862F/48-51-58	862F/49-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58				
10	853	862F/48-51-58 862F/48-51-58	862F/49-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58				
5	854	862F/48-51-58 862F/48-51-58	862F/49-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58				
0	856	862F/48-51-58 862F/48-51-58	862F/49-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58				
-5	856	862F/48-51-58 862F/48-51-58	862F/49-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58				
-10	857	862F/48-51-58 862F/48-51-58	862F/49-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.24 PERCENT FOR TODA AND -0.24 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

20R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 20R/A2 ZGGG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	C 100KG	-10	0	10
61A	650	721F/39-40-43	763F/40-40-43	775F/40-40-43	
		683**52-55-58	683**53-55-58	683**53-55-58	
58A	666	735F/40-41-45	777F/41-41-45	791F/41-41-45	
		699**53-56-59	700**54-56-59	700**54-56-59	
55A	682	749F/42-43-47	792F/42-43-47	806F/43-43-47	
		714**54-57-60	717**56-58-61	717**56-58-61	
52	700	764F/43-44-48	808F/44-44-48	824F/44-44-48	
		729**53-56-59	736**57-60-63	736**57-60-63	
49	719	780F/44-46-50	825F/45-46-50	841F/46-46-50	
		742**52-55-58	756**59-62-65	756**59-62-65	
46	739	794F/46-48-52	841F/47-48-52	857F/47-48-52	
		755**51-54-58	777**61-64-67	777**61-64-67	
43	758	792B/47-50-54	856F/48-50-54	862F/48-50-54	
		767**50-53-57	790**59-62-66	790**59-62-66	
40	778	784B/49-51-56	862F/50-51-56	862F/50-51-56	
		779**49-52-56	790**53-56-60	790**53-56-60	
37	798	786B/49-52-57	862F/50-52-57	862F/50-52-57	
34	818	793B/49-52-57	862F/50-52-57	862F/50-52-57	
31	839	804B/48-52-58	862F/49-52-58	862F/49-52-58	
28	847	813B/48-52-58	862F/49-52-58	862F/49-52-58	
25	849	821B/48-52-58	862F/49-52-58	862F/49-52-58	
22	850	829B/48-52-58	862F/49-52-58	862F/49-52-58	
19	850	837B/48-52-58	862F/49-52-58	862F/49-52-58	
16	851	845B/48-51-58	862F/49-51-58	862F/49-51-58	
13	852	853B/48-51-58	862F/49-51-58	862F/49-51-58	
10	853	861B/48-51-58	862F/49-51-58	862F/49-51-58	
5	854	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	857	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3580 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.24 PERCENT FOR TODA AND -0.24 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
20R/A2 NONE

Intentionally blank

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 18L ZGHA

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10	0	10	
61A	647	737F/38-39-43	776F/39-39-43	788F/39-39-43	
		680**52-54-57	680**52-54-57	680**52-54-57	
58A	662	751F/40-41-45	791F/41-41-45	804F/41-41-45	
		696**53-56-59	696**54-56-59	696**54-56-59	
55A	678	765F/41-42-46	807F/42-42-46	820F/42-42-46	
		712**54-57-61	713**55-58-61	713**55-58-61	
52	696	779F/43-44-48	824F/44-44-48	837F/44-44-48	
		726**53-56-59	732**57-60-63	732**57-60-63	
49	715	793F/44-46-50	839F/45-46-50	856F/45-46-50	
		739**52-55-58	752**59-61-65	752**59-61-65	
46	735	800B/46-48-52	855F/46-48-52	862F/47-48-52	
		751**51-54-58	773**60-63-67	773**60-63-67	
43	754	792B/47-49-54	862F/48-49-54	862F/48-49-54	
		764**50-53-57	790**60-64-68	790**61-64-68	
40	773	783B/48-51-55	862F/49-51-55	862F/50-51-55	
		776**49-52-56	790**54-57-61	790**55-57-61	
37	794	784B/49-52-56	862F/50-52-57	862F/51-52-57	
34	813	789B/49-52-57	862F/50-52-57	862F/50-52-57	
31	834	799B/48-52-57	862F/49-52-57	862F/49-52-57	
28	844	808B/48-52-58	862F/49-52-58	862F/49-52-58	
25	845	816B/48-52-58	862F/49-52-58	862F/49-52-58	
22	846	824B/48-52-58	862F/49-52-58	862F/49-52-58	
19	847	832B/48-52-58	862F/49-52-58	862F/49-52-58	
16	848	840B/48-52-58	862F/49-52-58	862F/49-52-58	
13	849	848B/48-52-58	862F/49-52-58	862F/49-52-58	
10	850	857B/48-52-58	862F/49-52-58	862F/49-52-58	
5	851	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	852	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	853	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	853	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.19 PERCENT FOR TODA AND -0.19 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 18R ZGHA

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL		
737-800		CFM56-7B26		DATED 10-JUN-2019			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE							
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)					
C	100KG	-10	0	10			
61A	647	679F/38-39-43 663**45-46-49	719F/39-39-43 680**52-54-57	734F/39-39-43 680**52-54-57			
58A	662	692F/40-41-45 678**45-47-50	733F/41-41-45 696**54-56-59	747F/41-41-45 696**54-56-59			
55A	678	705F/41-42-46 692**46-48-51	747F/42-42-46 711**54-57-60	762F/42-42-46 713**55-58-61			
52	696	719F/43-44-48 708**47-49-52	762F/44-44-48 728**55-58-61	777F/44-44-48 732**57-60-63			
49	715	734F/44-46-50 725**47-50-53	778F/45-46-50 746**56-58-62	793F/45-46-50 752**59-61-65			
46	735	749F/46-48-52 743**48-50-54	795F/46-48-52 764**56-59-63	810F/47-48-52 770**59-62-66			
43	754	764F/47-49-54 759**49-51-55	811F/48-49-54 782**57-60-63	826F/48-49-54 788**60-63-66			
40	773	779F/48-51-55 776**49-52-56	828F/49-51-55 790**54-57-61	844F/50-51-55 790**55-57-61			
37	794	784B/49-52-56	843F/50-52-57	860F/51-52-57			
34	813	789B/49-52-57	858F/50-52-57	862F/50-52-57			
31	834	798B/48-52-57	862F/49-52-57	862F/49-52-57			
28	844	808B/48-52-58	862F/49-52-58	862F/49-52-58			
25	845	816B/48-52-58	862F/49-52-58	862F/49-52-58			
22	846	824B/48-52-58	862F/49-52-58	862F/49-52-58			
19	847	832B/48-52-58	862F/49-52-58	862F/49-52-58			
16	848	840B/48-52-58	862F/49-52-58	862F/49-52-58			
13	849	847F/48-52-58	862F/49-52-58	862F/49-52-58			
10	850	851F/48-52-58	862F/49-52-58	862F/49-52-58			
5	851	858F/48-51-58	862F/49-51-58	862F/49-51-58			
0	852	862F/48-51-58	862F/49-51-58	862F/49-51-58			
-5	853	862F/48-51-58	862F/49-51-58	862F/49-51-58			
-10	853	862F/48-51-58	862F/49-51-58	862F/49-51-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

18R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 18R/B7 ZGHA

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

HUANGHUAJICHANG
CS/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	647	612F/34-35-39	652F/39-39-43	666F/39-39-43
			650**40-41-44	657**43-43-47
58A	662	623F/35-36-41	664F/41-41-45	678F/41-41-45
				671**44-44-48
55A	678	635F/36-37-42	676F/42-42-46	691F/42-42-46
				685**45-45-49
52	696	647F/37-39-44	690F/43-43-47	705F/44-44-48
				701**45-46-50
49	715	661F/38-40-45	704F/44-45-49	719F/45-46-50
				717**46-47-51
46	735	674F/39-41-46	718F/45-46-50	734F/47-48-52
43	754	687F/40-42-48	733F/46-47-52	749F/48-49-53
40	773	701F/41-43-49	748F/47-48-53	764F/49-50-55
37	794	713F/42-44-51	763F/48-50-55	779F/50-51-56
34	813	726F/42-45-52	777F/48-51-56	794F/50-52-57
31	834	738F/43-46-53	790F/49-52-57	808F/49-52-57
28	844	746F/43-47-54	798F/49-52-58	817F/49-52-58
25	845	750F/44-47-54	802F/49-52-58	821F/49-52-58
22	846	753F/44-48-55	806F/49-52-58	825F/49-52-58
19	847	757F/44-48-55	810F/49-52-58	829F/49-52-58
16	848	761F/45-48-55	815F/49-52-58	833F/49-52-58
13	849	764F/45-49-56	819F/49-52-58	838F/49-52-58
10	850	768F/46-49-56	823F/49-52-58	842F/49-52-58
5	851	774F/46-50-56	830F/49-51-58	849F/49-51-58
0	852	781F/47-51-57	837F/49-51-58	857F/49-51-58
-5	853	787F/48-51-57	844F/49-51-58	862F/49-51-58
-10	853	794F/48-51-58	851F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
18R/B7 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 36L ZGHA

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL DATED 10-JUN-2019
737-800	CFM56-7B26		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C 100KG	-10	0	10
61A 647	653*/39-39-43 660**44-45-48	667*/39-39-43 678**52-54-57	672*/39-39-43 680**53-54-57
58A 662	669*/40-41-45 675**45-46-49	683*/41-41-45 693**53-54-58	688*/41-41-45 696**54-56-59
55A 678	685*/42-42-46 689**45-47-50	699*/42-42-46 709**54-55-59	704*/42-42-46 713**56-58-61
52 696	702*/43-44-48 705**46-47-51	717*/44-44-48 726**54-56-59	722*/44-44-48 731**57-59-62
49 715	720*/45-46-50 722**47-48-52	736*/46-46-50 744**55-57-60	741*/46-46-50 749**58-60-63
46 735	740*/46-48-52 739**48-49-53	755*/47-48-52 761**56-58-61	761*/47-48-52 767**58-61-64
43 754	758F/48-49-54 756**48-50-54	774*/48-49-54 778**56-59-62	780*/49-49-54 785**59-61-65
40 773	772F/49-51-55	793*/50-51-55 790**55-57-61	799*/50-51-55 790**55-57-61
37 794	785B/50-52-57	813*/51-52-57	818*/51-52-57
34 813	791B/49-52-57	831*/50-52-57	836*/50-52-57
31 834	802B/49-52-57	849*/50-52-57	855*/50-52-57
28 844	811B/48-52-58	858*/49-52-58	862F/50-52-58
25 845	820B/48-52-58	860*/49-52-58	862F/50-52-58
22 846	828B/48-52-58	861*/49-52-58	862F/50-52-58
19 847	832F/48-52-58	862F/49-52-58	862F/50-52-58
16 848	836F/48-52-58	862F/49-52-58	862F/50-52-58
13 849	840F/48-52-58	862F/49-52-58	862F/50-52-58
10 850	844F/48-52-58	862F/49-52-58	862F/50-52-58
5 851	849*/48-51-58	862F/49-51-58	862F/50-51-58
0 852	851*/48-51-58	862F/49-51-58	862F/50-51-58
-5 853	853*/48-51-58	862F/49-51-58	862F/50-51-58
-10 853	854*/49-51-58	862F/50-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.20 PERCENT FOR TODA AND 0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 36L 157 3660 0 213 5268 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 36L/B2 ZGHA

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

HUANGHUAJICHANG
CS/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	100KG	-10	0	10
61A	647	630F/37-37-41	662*/39-39-43	667*/39-39-43	
			659**44-44-48	666**47-47-50	
58A	662	641F/38-38-43	678*/41-41-45	682*/41-41-45	
			673**45-45-48	680**48-48-51	
55A	678	653F/39-40-44	694*/42-42-46	699*/42-42-46	
			687**46-46-49	695**48-49-52	
52	696	666F/40-41-45	709F/44-44-48	717*/44-44-48	
			703**46-47-50	711**49-50-53	
49	715	680F/41-42-47	724F/46-46-50	735*/46-46-50	
			720**47-48-51	728**50-50-54	
46	735	694F/42-43-48	739F/47-48-52	754F/47-48-52	
			737**48-48-52	745**50-51-55	
43	754	708F/43-44-50	754F/48-49-54	769F/49-49-54	
				762**51-52-56	
40	773	722F/44-46-51	769F/49-51-55	785F/50-51-55	
				780**52-53-57	
37	794	736F/44-47-52	785F/50-52-57	801F/51-52-57	
34	813	749F/45-48-54	799F/50-52-57	816F/50-52-57	
31	834	762F/46-49-55	813F/50-52-57	831F/50-52-57	
28	844	770F/46-49-56	822F/49-52-58	840F/50-52-58	
25	845	773F/47-50-56	826F/49-52-58	844F/50-52-58	
22	846	777F/47-50-57	830F/49-52-58	848F/50-52-58	
19	847	781F/47-51-57	834F/49-52-58	852F/50-52-58	
16	848	784F/48-51-57	838F/49-52-58	856F/50-52-58	
13	849	788F/48-51-57	842F/49-52-58	860F/50-52-58	
10	850	792F/48-52-58	846F/49-52-58	862F/50-52-58	
5	851	799F/48-51-58	853F/49-51-58	862F/50-51-58	
0	852	805F/48-51-58	860F/49-51-58	862F/50-51-58	
-5	853	812F/48-51-58	862F/49-51-58	862F/50-51-58	
-10	853	818F/49-51-58	862F/50-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.20 PERCENT FOR TODA AND 0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 36L/B2 157 3660 0 213 5268 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 36R ZGHA

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 647	654*/39-39-43 677**52-54-57	668*/39-39-43 680**53-54-57	672*/39-39-43 680**53-54-57
58A 662	670*/40-41-45 693**53-56-59	684*/41-41-45 696**54-56-59	688*/41-41-45 696**54-56-59
55A 678	685*/42-42-46 709**55-57-60	700*/42-42-46 713**56-58-61	704*/42-42-46 713**56-58-61
52 696	703*/43-44-48 725**54-57-60	718*/44-44-48 732**57-60-63	723*/44-44-48 732**58-60-63
49 715	722*/45-46-50 739**53-55-59	737*/46-46-50 752**59-61-65	742*/46-46-50 752**59-61-65
46 735	741*/46-48-52 752**52-54-58	756*/47-48-52 773**61-63-67	761*/47-48-52 773**61-63-67
43 754	759*/48-49-54 765**51-53-57	775*/48-49-54 790**61-64-68	780*/49-49-54 790**61-64-68
40 773	778*/49-51-55 777**50-52-56	794*/50-51-55 790**55-57-61	800*/50-51-55 790**55-57-61
37 794	785B/50-52-57	814*/51-52-57	819*/51-52-57
34 813	791B/49-52-57	832*/50-52-57	837*/50-52-57
31 834	802B/49-52-57	850*/50-52-57	856*/50-52-57
28 844	811B/48-52-58	860*/49-52-58	862F/50-52-58
25 845	819B/48-52-58	861*/49-52-58	862F/50-52-58
22 846	828B/48-52-58	862F/49-52-58	862F/50-52-58
19 847	836B/48-52-58	862F/49-52-58	862F/50-52-58
16 848	844B/48-52-58	862F/49-52-58	862F/50-52-58
13 849	848*/48-52-58	862F/49-52-58	862F/50-52-58
10 850	849*/48-52-58	862F/49-52-58	862F/50-52-58
5 851	851*/48-51-58	862F/49-51-58	862F/50-51-58
0 852	853*/48-51-58	862F/49-51-58	862F/50-51-58
-5 853	854*/48-51-58	862F/49-51-58	862F/50-51-58
-10 853	855*/48-51-58	862F/50-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE 0.19 PERCENT FOR TODA AND 0.19 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
36R 141 3500 0 223 4968 0 164 3360 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 571 FT

RUNWAY 01 ZGKL

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				LIANGJIANGJICHANG GL/SOUTHCENTRAL DATED 10-JUN-2019	
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT C	100KG	-10	0	10	
61A	639	648*/37-39-42	668*/38-39-42	675*/38-39-42	
		649**40-42-46	671**50-53-56	672**51-53-56	
58A	655	662*/38-40-44	683*/39-40-44	690*/40-40-44	
		663**41-43-47	686**51-54-57	688**52-55-58	
55A	671	677*/40-42-45	698*/41-42-45	705*/41-42-45	
		677**42-44-48	701**52-55-58	705**54-57-60	
52	688	692*/41-43-47	715*/42-43-47	722*/42-43-47	
		692**43-46-49	718**53-56-59	724**56-59-62	
49	707	708*/43-45-49	732*/44-45-49	739*/44-45-49	
		708**44-46-50	735**53-56-60	741**56-60-63	
46	726	725*/44-47-51	750*/45-47-51	757*/45-47-51	
			753**54-57-61	760**57-60-64	
43	745	742*/45-48-52	767*/46-49-53	775*/47-49-53	
			769**54-58-61	777**57-61-65	
40	764	758*/46-50-54	785*/48-50-55	793*/48-50-55	
			787**55-59-62	790**56-60-64	
37	785	775*/47-51-56	803*/49-52-56	811*/50-52-56	
			790**51-54-58	790**51-54-58	
34	805	791*/48-52-57	818*/49-52-57	827*/50-52-57	
31	824	802*/48-52-57	831*/49-52-57	840*/49-52-57	
28	837	811*/47-52-58	840*/48-52-58	850*/49-52-58	
25	839	813*/47-52-58	842*/48-52-58	852*/49-52-58	
22	840	815*/47-52-58	845*/48-52-58	854*/49-52-58	
19	840	818*/47-52-58	847*/48-52-58	856*/49-52-58	
16	841	820*/47-52-58	849*/48-52-58	859*/49-52-58	
13	842	822*/47-52-58	851*/48-52-58	861*/49-52-58	
10	843	824*/47-52-58	853*/48-52-58	862F/49-52-58	
5	844	827*/47-52-58	857*/48-52-58	862F/49-52-58	
0	845	831*/47-52-58	861*/48-52-58	862F/49-52-58	
-5	846	834*/47-52-58	862F/48-52-58	862F/49-52-58	
-10	846	838*/47-52-58	862F/49-52-58	862F/49-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.38 PERCENT FOR TODA AND 0.26 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 23 520 0 39 679 0 49 1087 0
 72 1704 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 571 FT

RUNWAY 19 ZGKL

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	LIANGJIANGJICHANG GL/SOUTHCENTRAL
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 639	589*/31-32-37	594*/32-33-38	596*/33-33-38
	621**43-47-51	627**45-48-51	629**45-48-52
58A 655	604*/32-34-39	610*/34-35-39	611*/34-35-39
	637**45-49-53	643**46-49-53	645**47-50-53
55A 671	620*/34-36-41	625*/35-36-41	627*/36-37-41
	654**47-51-55	660**48-51-55	662**49-52-55
52 688	637*/35-37-42	642*/37-38-43	644*/37-38-43
	672**48-52-56	678**50-53-57	680**50-53-57
49 707	655*/37-39-44	660*/39-40-45	662*/39-40-45
	690**50-54-58	697**51-55-59	699**52-55-59
46 726	673*/38-41-46	678*/40-42-47	680*/41-42-47
	707**50-55-59	716**53-57-61	718**54-57-61
43 745	691*/40-43-48	697*/42-43-49	699*/42-44-49
	723**51-56-60	735**55-59-63	738**55-59-63
40 764	707*/41-44-50	713*/43-45-50	715*/43-45-50
	739**52-57-61	753**56-61-65	755**57-61-65
37 785	724*/42-46-51	730*/44-46-52	732*/45-47-52
	755**52-57-62	771**57-62-67	773**58-63-67
34 805	742*/44-47-53	748*/45-48-54	751*/46-48-54
	768**51-57-62	790**59-64-69	790**58-63-68
31 824	760*/45-49-55	767*/46-50-55	769*/47-50-56
	780**51-56-61	790**53-58-63	790**53-57-62
28 837	773*/46-50-56	779*/47-51-57	782*/48-51-57
	789**50-55-61	790**50-54-60	790**50-54-59
25 839	773*/46-50-56	780*/47-51-57	782*/48-51-57
	790**51-56-62	790**50-54-60	790**50-53-59
22 840	773*/46-50-56	780*/47-51-57	782*/48-51-57
	790**51-56-62	790**50-54-60	790**50-53-59
19 840	773*/46-50-56	780*/47-51-57	782*/48-51-57
	790**51-56-62	790**50-54-60	790**50-53-59
16 841	773*/46-50-56	780*/47-51-57	782*/48-51-57
	790**51-56-62	790**50-54-60	790**50-53-59
13 842	773*/46-50-56	780*/47-51-57	782*/48-51-57
	790**51-56-62	790**50-54-60	790**50-53-59
10 843	773*/46-50-56	780*/47-51-57	782*/48-51-57
	790**51-56-62	790**50-54-60	790**50-53-59
5 844	773*/46-50-56	780*/48-51-57	782*/48-51-57
	790**51-56-62	790**50-54-60	790**50-53-59
0 845	772*/46-50-56	779*/48-50-57	781*/48-51-57
	790**51-56-62	790**50-54-60	790**50-53-59
-5 846	771*/46-50-56	778*/48-50-57	781*/48-51-57
	790**51-56-62	790**51-54-60	790**51-54-60
-10 846	770*/46-50-56	777*/47-50-57	780*/48-51-57
	790**51-56-62	790**51-55-60	790**51-54-60

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2200 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.26 PERCENT FOR TODA AND 0.38 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

19 1565 31682 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 423 FT

RUNWAY 05

ZGNN

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

WUXUJICHANG

NN/SOUTHCENTRAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	642	650*/38-39-42 656**44-46-49	667*/39-39-42 675**52-54-57	673*/39-39-42 675**52-54-57
58A	658	665*/40-41-44 670**45-46-50	683*/41-41-44 690**53-55-58	688*/41-41-44 692**54-55-59
55A	674	680*/41-42-46 684**46-47-51	699*/42-42-46 706**54-56-59	704*/42-42-46 709**55-57-60
52	692	696*/43-44-48 700**46-48-52	716*/43-44-48 722**54-56-60	722*/44-44-48 727**57-59-62
49	710	713*/44-45-49 717**47-49-53	734*/45-45-49 740**55-57-61	740*/45-45-49 745**58-60-64
46	730	731*/46-47-51 734**48-50-54	752*/46-47-51 758**56-58-62	759*/47-47-51 764**58-61-64
43	749	749*/47-49-53 751**48-51-55	770*/48-49-53 775**56-59-62	777*/48-49-53 781**59-62-65
40	768	767*/48-50-55	788*/49-51-55 790**56-59-63	795*/49-51-55 790**56-59-63
37	789	781B/49-52-56	808*/51-52-57 790**51-53-57	815*/51-52-57 790**51-53-57
34	808	786B/49-52-57	823*/50-52-57	830*/50-52-57
31	828	794B/49-52-57	838*/49-52-57	846*/50-52-57
28	840	803B/48-52-58	848*/49-52-58	856*/49-52-58
25	841	811B/48-52-58	849*/49-52-58	858*/49-52-58
22	842	819B/48-52-58	851*/49-52-58	859*/49-52-58
19	843	827B/48-52-58	853*/49-52-58	861*/49-52-58
16	844	830*/48-52-58	855*/49-52-58	862F/49-52-58
13	845	832*/48-52-58	857*/49-52-58	862F/50-52-58
10	846	834*/48-52-58	858*/49-52-58	862F/50-52-58
5	847	837*/48-52-58	861*/49-52-58	862F/50-52-58
0	848	840*/48-52-58	862F/49-52-58	862F/50-52-58
-5	849	842*/48-52-58	862F/49-52-58	862F/50-52-58
-10	849	845*/48-52-58	862F/49-52-58	862F/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05 62 1322 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 423 FT

RUNWAY 05/A1 ZGNN

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF WUXUJICHANG
 737-800 CFM56-7B26 NN/SOUTHCENTRAL
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61A	642	639*/38-39-42	659*/39-39-42 662**46-47-50	665*/39-39-42 668**49-50-53
58A	658	651F/39-40-43	674*/41-41-44 676**47-48-51	680*/41-41-44 683**49-51-54
55A	674	663F/40-41-45	690*/42-42-46 690**48-48-52	696*/42-42-46 698**50-51-55
52	692	676F/41-42-46	707*/43-44-48 706**48-49-53	713*/44-44-48 714**51-52-56
49	710	690F/42-43-48	724*/45-45-49 723**49-50-54	731*/45-45-49 730**52-53-57
46	730	705F/43-45-49	742*/46-47-51 741**50-51-55	749*/47-47-51 748**52-54-58
43	749	719F/44-46-51	760*/48-49-53 757**50-52-56	767*/48-49-53 765**53-55-59
40	768	734F/45-47-52	778*/49-51-55 775**51-53-57	785*/49-51-55 783**54-56-60
37	789	747F/45-48-53	796F/51-52-57 790**51-53-57	804*/51-52-57 790**51-53-57
34	808	760F/46-49-55	811F/50-52-57 825F/49-52-57	819*/50-52-57 834*/50-52-57
31	828	773F/47-50-56		
28	840	782F/47-51-57	835*/49-52-58	843*/49-52-58
25	841	786F/48-51-57	837*/49-52-58	845*/49-52-58
22	842	790F/48-52-58	838*/49-52-58	847*/49-52-58
19	843	794F/48-52-58	840*/49-52-58	849*/49-52-58
16	844	797F/48-52-58	842*/49-52-58	851*/49-52-58
13	845	801F/48-52-58	844*/49-52-58	852*/50-52-58
10	846	805F/48-52-58	846*/49-52-58	854*/50-52-58
5	847	812F/48-52-58	849*/49-52-58	857*/50-52-58
0	848	818F/48-52-58	852*/49-52-58	860*/50-52-58
-5	849	825F/48-52-58	854*/49-52-58	862F/50-52-58
-10	849	831*/48-52-58	857*/49-52-58	862F/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2900 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05/A1 62 1322 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 423 FT

RUNWAY 05/B3 ZGNN

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

WUXUJICHANG
NN/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	642	628F/36-37-41	656*/39-39-42	662*/39-39-42
			656**44-44-48	663**47-47-50
58A	658	640F/37-38-42	671*/41-41-44	677*/41-41-44
			670**45-45-49	677**47-48-51
55A	674	652F/38-40-44	686*/42-42-46	693*/42-42-46
			685**45-46-49	692**48-49-52
52	692	665F/39-41-45	703*/43-44-48	710*/44-44-48
			700**46-47-50	708**49-50-53
49	710	678F/40-42-47	720*/45-45-49	727*/45-45-49
			717**47-48-51	724**50-51-54
46	730	692F/41-43-48	737F/46-47-51	745*/47-47-51
			734**48-49-53	742**50-52-55
43	749	707F/42-44-49	752F/48-49-53	763*/48-49-53
			750**48-49-54	759**51-52-56
40	768	721F/43-46-51	767F/49-50-55	781*/49-51-55
				776**52-53-57
37	789	734F/44-47-52	783F/50-52-56	799F/51-52-57
				790**51-53-57
34	808	747F/45-48-54	798F/50-52-57	815F/50-52-57
31	828	759F/45-49-55	811F/49-52-57	829F/50-52-57
28	840	768F/46-49-56	821F/49-52-58	838*/49-52-58
25	841	772F/46-50-56	825F/49-52-58	840*/49-52-58
22	842	776F/47-50-56	829F/49-52-58	842*/49-52-58
19	843	779F/47-51-57	833F/49-52-58	844*/49-52-58
16	844	783F/47-51-57	837F/49-52-58	846*/49-52-58
13	845	787F/48-51-57	839*/49-52-58	848*/50-52-58
10	846	791F/48-52-58	841*/49-52-58	850*/50-52-58
5	847	797F/48-52-58	844*/49-52-58	853*/50-52-58
0	848	804F/48-52-58	847*/49-52-58	856*/50-52-58
-5	849	810F/48-52-58	850*/49-52-58	858*/50-52-58
-10	849	817F/48-52-58	852*/49-52-58	861*/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05/B3 62 1322 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 423 FT

RUNWAY 23 ZGNN

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			WUXUJICHANG NN/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C 100KG	-10	0	10
61A 642	671F/38-39-42 657**44-45-48	710F/39-39-42 675**52-54-57	724F/39-39-42 675**52-54-57
58A 658	683F/40-41-44 671**45-46-49	724F/41-41-44 690**53-55-58	738F/41-41-44 692**54-55-59
55A 674	696F/41-42-46 686**45-47-50	738F/42-42-46 705**54-55-59	752F/42-42-46 709**55-57-60
52 692	710F/43-44-48 702**46-47-51	753F/44-44-48 722**54-56-60	767F/44-44-48 727**57-59-62
49 710	725F/44-45-49 718**47-48-52	769F/45-45-49 740**55-57-61	783F/45-45-49 745**58-60-64
46 730	740F/46-47-51 736**47-49-53	785F/46-47-51 758**56-58-61	800F/47-47-51 763**58-61-64
43 749	755F/47-49-53 752**48-50-54	801F/48-49-53 774**56-59-62	816F/48-49-53 781**59-61-65
40 768	770F/48-51-55	817F/49-51-55 790**56-59-63	833F/49-51-55 790**56-59-63
37 789	781B/49-52-56	834F/51-52-57 790**51-53-57	850F/51-52-57 790**51-53-57
34 808	787B/49-52-57 794B/49-52-57	849F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
31 828	840 803B/48-52-58	862F/49-52-58	862F/49-52-58
28 840	811B/48-52-58	862F/49-52-58	862F/49-52-58
25 841	819B/48-52-58	862F/49-52-58	862F/49-52-58
22 842	828B/48-52-58	862F/49-52-58	862F/49-52-58
19 843	835F/48-52-58	862F/49-52-58	862F/49-52-58
16 844	839F/48-52-58	862F/49-52-58	862F/49-52-58
13 845	843F/48-52-58	862F/49-52-58	862F/49-52-58
10 846	849F/48-52-58	862F/49-52-58	862F/49-52-58
5 847	856F/48-52-58	862F/49-52-58	862F/49-52-58
0 848	862F/48-52-58	862F/49-52-58	862F/49-52-58
-5 849	862F/48-52-58	862F/49-52-58	862F/49-52-58
-10 849	862F/48-52-58	862F/49-52-58	862F/49-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.02 PERCENT FOR TODA AND 0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 04

ZGOW

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

CHAOSHAN JICHANG
JY/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	C 100KG	-10	0	10
61A	650	641F/37-39-42	669*/39-40-43	675*/40-40-43	
			667**45-46-50	674**48-49-53	
58A	666	652F/38-40-44	684*/41-41-45	690*/41-41-45	
			681**46-47-51	688**49-50-53	
55A	682	665F/39-41-45	700*/42-43-47	706*/43-43-47	
			696**47-48-52	703**50-51-54	
52	700	678F/40-42-46	718*/44-44-48	724*/44-44-48	
			712**47-49-52	719**50-52-55	
49	719	692F/41-43-48	736*/45-46-50	742*/45-46-50	
			729**48-50-53	736**51-53-56	
46	739	707F/42-45-49	752F/47-48-52	761*/47-48-52	
			746**49-51-55	754**52-54-57	
43	758	721F/43-46-51	767F/48-50-54	779*/48-50-54	
			763**49-51-56	772**52-55-58	
40	778	736F/44-47-52	783*/49-51-56	798*/50-51-56	
			781**50-52-57	790**53-55-60	
37	798	750F/45-48-54	799F/50-52-57	816F/50-52-57	
34	818	763F/46-49-55	815F/49-52-57	832F/50-52-57	
31	839	776F/46-50-56	829F/49-52-58	848F/49-52-58	
28	847	784F/47-51-57	837F/48-52-58	856F/49-52-58	
25	849	787F/47-51-57	842F/48-52-58	859*/49-52-58	
22	850	791F/47-52-58	846F/48-52-58	861*/49-52-58	
19	850	795F/47-52-58	850F/48-52-58	862F/49-52-58	
16	851	799F/47-51-58	854F/49-51-58	862F/49-51-58	
13	852	803F/47-51-58	858*/49-51-58	862F/49-51-58	
10	853	807F/47-51-58	860*/49-51-58	862F/49-51-58	
5	854	813F/47-51-58	862F/49-51-58	862F/49-51-58	
0	856	820F/47-51-58	862F/49-51-58	862F/49-51-58	
-5	856	827F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	857	834F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.36 PERCENT FOR TODA AND -0.36 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 04 105 2440 0 108 2569 0 102 2447 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 04/A2 ZGOW

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			CHAOSHANJICHANG JY/SOUTHCENTRAL DATED 10-JUN-2019	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
OAT	CLIMB	-10	0	10		
C	100KG					
61A	650	621F/35-36-40	662F/39-40-43	671*/40-40-43		
			657**41-42-45	664**44-45-48		
58A	666	633F/36-37-42	674F/41-41-45	686*/41-41-45		
			670**42-43-46	678**45-46-49		
55A	682	644F/37-38-43	686F/42-43-47	701F/43-43-47		
			684**43-44-47	692**46-47-50		
52	700	657F/38-40-45	700F/44-44-48	715F/44-44-48		
				708**46-47-51		
49	719	671F/39-41-46	714F/45-46-50	730F/45-46-50		
				725**47-48-52		
46	739	685F/40-42-47	729F/46-47-51	745F/47-48-52		
				742**48-49-53		
43	758	699F/41-43-49	744F/47-48-53	760F/48-50-54		
				759**49-50-54		
40	778	713F/42-45-50	759F/47-49-54	775F/49-51-56		
37	798	726F/42-46-52	774F/48-51-56	791F/50-52-57		
34	818	739F/43-47-53	790F/49-52-57	806F/50-52-57		
31	839	752F/44-48-54	804F/49-52-58	822F/49-52-58		
28	847	759F/44-48-55	812F/48-52-58	830F/49-52-58		
25	849	762F/45-49-55	816F/48-52-58	835F/49-52-58		
22	850	766F/45-49-56	820F/48-52-58	839F/49-52-58		
19	850	770F/45-49-56	824F/48-52-58	843F/49-52-58		
16	851	773F/46-50-56	828F/49-51-58	847F/49-51-58		
13	852	777F/46-50-57	832F/49-51-58	852F/49-51-58		
10	853	781F/47-51-57	837F/49-51-58	856F/49-51-58		
5	854	788F/47-51-57	844F/49-51-58	862F/49-51-58		
0	856	794F/47-51-58	851F/49-51-58	862F/49-51-58		
-5	856	801F/48-51-58	858F/49-51-58	862F/49-51-58		
-10	857	807F/48-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2630 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.36 PERCENT FOR TODA AND -0.36 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

04/A2	105	2440	0	108	2569	0	102	2447	0
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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 22 ZGOW

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				CHAOSHAN JICHANG JY/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	650	614*/35-35-40 624*/37-37-41 625*/37-37-41	610	
		623**38-39-43 648**46-47-50 656**48-49-53		
58A	666	629*/36-37-41 640*/38-38-42 641*/38-38-43	615	
		636**39-40-44 663**48-48-51 671**49-50-54		
55A	682	644*/38-38-43 656*/40-40-44 657*/40-40-44	630	
		649**40-41-45 677**47-48-52 686**50-51-55		
52	700	661*/39-40-45 674*/42-42-46 676*/42-42-46	645	
		665**40-42-46 693**48-49-53 702**51-52-55		
49	719	679*/41-42-47 693*/43-43-48 695*/44-44-48	630	
		680**41-42-47 709**49-50-54 719**51-53-57		
46	739	696F/42-43-48 712*/45-45-50 714*/45-45-50	615	
		726**50-51-55 736**52-53-58		
43	758	710F/43-45-50 731*/46-47-52 733*/47-47-52	590	
		743**50-52-56 753**53-54-59		
40	778	725F/44-46-51 747*/47-48-53 750*/48-49-54	570	
		759**51-53-58 769**54-56-60		
37	798	739F/45-47-53 764*/48-50-55 768*/49-50-55	550	
		775**52-54-59 786**55-57-61		
34	818	753F/46-48-54 783*/50-51-57 788*/50-52-57	530	
		790**52-54-59 790**51-53-58		
31	839	766F/46-49-56 803*/50-52-58 808*/50-52-58	510	
28	847	773F/47-50-56 810*/49-52-58 815*/50-52-58	490	
25	849	777F/47-50-57 811*/49-52-58 816*/50-52-58	470	
22	850	780F/47-51-57 812*/49-52-58 816*/50-52-58	450	
19	850	784F/48-51-57 813*/49-52-58 816*/50-52-58	430	
16	851	788F/48-51-57 813*/49-51-58 816*/50-51-58	410	
13	852	792F/48-51-58 814*/49-51-58 816*/50-51-58	390	
10	853	796F/48-51-58 814*/49-51-58 817*/50-51-58	370	
5	854	798*/49-51-58 815*/50-51-58 817*/50-51-58	350	
0	856	799*/49-51-58 814*/50-51-58 816*/50-51-58	330	
-5	856	799*/49-51-58 814*/50-51-58 816*/50-51-58	310	
-10	857	800*/49-51-58 813*/50-51-58 815*/50-51-58	290	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1920 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.36 PERCENT FOR TODA AND 0.36 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22 328 6098 0 1283 20287 0 1299 20629 0
 121 2922 0

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 23 FT

RUNWAY 05

ZGSD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JINWANJICHANG
ZH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	653*/39-40-43	666*/40-40-43	670*/40-40-43
		684**52-55-58	684**53-55-58	684**53-55-58
58A	666	669*/41-41-45	682*/41-41-45	686*/41-41-45
		700**54-56-60	700**54-56-60	700**55-56-60
55A	682	685*/42-43-47	698*/43-43-47	702*/43-43-47
		716**55-58-61	718**56-58-61	718**56-58-61
52	701	704*/43-45-48	717*/44-45-48	719*/45-45-48
		730**54-56-60	737**57-60-63	737**58-60-63
49	720	722*/45-46-50	736*/46-46-50	740*/46-46-50
		743**52-55-59	757**59-62-65	757**59-62-65
46	739	742*/46-48-52	756*/47-48-52	760*/47-48-52
		756**51-54-58	778**61-64-68	778**61-64-68
43	759	761*/48-50-54	775*/49-50-54	780*/49-50-54
		768**50-53-57	790**59-62-65	790**59-62-65
40	779	780*/49-51-56	794*/50-51-56	798*/50-51-56
		780**50-52-56	790**53-55-60	790**54-55-60
37	799	788B/49-52-57	812*/50-52-57	817*/51-52-57
34	819	796B/49-52-57	832*/50-52-57	837*/50-52-57
31	840	807B/48-52-58	853*/49-52-58	858*/49-52-58
28	848	816B/48-52-58	860*/49-52-58	862F/49-52-58
25	849	824B/48-52-58	862*/49-52-58	862F/49-52-58
22	850	832B/48-52-58	862F/49-52-58	862F/49-52-58
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58
16	852	848B/48-51-58	862F/49-51-58	862F/49-51-58
13	853	850*/48-51-58	862F/49-51-58	862F/49-51-58
10	854	851*/48-51-58	862F/49-51-58	862F/49-51-58
5	855	852*/48-51-58	862F/49-51-58	862F/49-51-58
0	856	853*/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	854*/48-51-58	862F/49-51-58	862F/49-51-58
-10	857	854*/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 970 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05 581 12650 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 23 FT

RUNWAY 05/G ZGSD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JINWANJICHANG
ZH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	651	653*/39-40-43	665*/40-40-43	669*/40-40-43	
		683**52-55-58	684**53-55-58	684**53-55-58	
58A	666	668*/41-41-45	681*/41-41-45	685*/41-41-45	
		699**54-56-59	700**54-56-60	700**55-56-60	
55A	682	685*/42-43-47	698*/43-43-47	702*/43-43-47	
		716**55-58-61	718**56-58-61	718**56-58-61	
52	701	703*/43-45-48	716*/44-45-48	719*/45-45-48	
		730**54-56-60	737**57-60-63	737**58-60-63	
49	720	722*/45-46-50	735*/46-46-50	740*/46-46-50	
		743**52-55-59	757**59-62-65	757**59-62-65	
46	739	741*/46-48-52	755*/47-48-52	759*/47-48-52	
		756**51-54-58	778**61-64-68	778**61-64-68	
43	759	760*/48-50-54	774*/49-50-54	779*/49-50-54	
		768**50-53-57	790**59-62-65	790**59-62-65	
40	779	779*/49-51-56	793*/50-51-56	798*/50-51-56	
		780**50-52-56	790**53-55-60	790**54-55-60	
37	799	788B/49-52-57	812*/50-52-57	816*/51-52-57	
34	819	796B/49-52-57	831*/50-52-57	836*/50-52-57	
31	840	807B/48-52-58	852*/49-52-58	857*/49-52-58	
28	848	816B/48-52-58	859*/49-52-58	862F/49-52-58	
25	849	824B/48-52-58	861*/49-52-58	862F/49-52-58	
22	850	832B/48-52-58	862*/49-52-58	862F/49-52-58	
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58	
16	852	848*/48-51-58	862F/49-51-58	862F/49-51-58	
13	853	849*/48-51-58	862F/49-51-58	862F/49-51-58	
10	854	850*/48-51-58	862F/49-51-58	862F/49-51-58	
5	855	851*/48-51-58	862F/49-51-58	862F/49-51-58	
0	856	852*/48-51-58	862F/49-51-58	862F/49-51-58	
-5	857	853*/48-51-58	862F/49-51-58	862F/49-51-58	
-10	857	853*/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 970 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3860 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05/G 581 12650 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 23 FT

RUNWAY 23

ZGSD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JINWANJICHANG

ZH/SOUTHCENTRAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	595*/32-33-38 617**43-46-50	611*/35-35-39 634**46-48-52	616*/36-36-40 639**47-49-53
58A	666	609*/33-34-39 631**44-48-52	626*/36-36-41 649**48-50-54	631*/37-37-42 654**49-51-55
55A	682	624*/35-36-41 646**46-49-54	641*/38-38-43 664**49-52-56	646*/39-39-43 670**50-52-56
52	701	641*/36-38-43 663**48-51-56	657*/39-40-45 682**51-53-58	663*/40-40-45 688**52-54-58
49	720	658*/38-39-45 681**49-53-58	675*/41-41-46 700**52-55-60	681*/42-42-47 706**53-56-60
46	739	675*/39-41-47 699**51-55-60	693*/42-43-48 718**54-57-61	698*/43-44-49 725**55-58-62
43	759	692*/41-43-48 717**52-57-61	710*/43-45-50 736**55-59-63	716*/44-45-50 743**56-60-64
40	779	709*/42-44-50 733**53-58-63	727*/45-46-52 753**56-60-65	733*/46-47-52 760**58-61-66
37	799	725*/43-45-52 749**54-59-64	743*/46-47-53 771**58-62-67	750*/47-48-54 778**59-63-68
34	819	743*/44-47-53 763**52-57-63	762*/47-49-55 790**59-64-69	768*/48-50-55 790**56-60-65
31	840	762*/45-49-55 777**51-56-62	781*/48-51-57 790**51-55-60	788*/49-51-57 790**50-52-58
28	848	769*/46-49-56 783**51-56-62	788*/49-51-57 790**49-52-58	795*/49-52-58
25	849	770*/46-49-56 786**52-57-63	790*/49-51-58	796*/49-52-58
22	850	771*/46-49-56 788**53-57-63	790*/49-52-58	797*/49-52-58
19	851	771*/46-50-56 790**53-58-64	791*/49-51-58	798*/49-51-58
16	852	772*/46-50-56 790**53-58-64	792*/49-51-58	799*/49-51-58
13	853	773*/46-50-56 790**53-58-64	793*/49-51-58	799*/49-51-58
10	854	774*/46-50-56 790**53-57-63	794*/49-51-58	800*/49-51-58
5	855	775*/46-50-56 790**52-57-63	795*/49-51-58	802*/49-51-58
0	856	776*/47-50-57 790**52-56-63	796*/49-51-58	803*/49-51-58
-5	857	776*/47-50-57 790**52-56-62	797*/49-51-58	803*/49-51-58
-10	857	777*/47-50-57 790**52-56-62	797*/49-51-58	804*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1600 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23 840 14477 0 1152 13661 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 23 FT

RUNWAY 23/B ZGSD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JINWANJICHANG
ZH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	651	594*/32-33-38	610*/35-35-39	615*/35-35-40	
		615**43-46-50	632**46-48-52	638**47-49-53	
58A	666	608*/33-34-39	625*/36-36-41	630*/37-37-41	
		630**44-48-52	648**47-50-54	653**48-51-54	
55A	682	623*/35-36-41	640*/38-38-43	645*/39-39-43	
		645**46-49-54	663**49-51-56	669**50-52-56	
52	701	640*/36-38-43	656*/39-40-44	662*/40-40-45	
		662**47-51-56	681**51-53-57	687**52-54-58	
49	720	657*/38-39-45	674*/41-41-46	680*/42-42-47	
		680**49-53-57	699**52-55-59	705**53-56-60	
46	739	674*/39-41-47	691*/42-43-48	697*/43-44-49	
		698**51-55-59	717**54-57-61	723**55-58-62	
43	759	691*/40-42-48	709*/43-44-50	715*/44-45-50	
		715**52-56-61	735**55-59-63	742**56-59-64	
40	779	707*/42-44-50	726*/44-46-51	732*/45-47-52	
		732**53-58-63	752**56-60-65	759**57-61-66	
37	799	724*/43-45-52	742*/46-47-53	749*/47-48-54	
		748**54-59-64	769**58-62-67	776**59-63-67	
34	819	742*/44-47-53	761*/47-49-55	767*/48-50-55	
		762**53-57-63	788**59-64-69	790**57-60-66	
31	840	760*/45-49-55	780*/48-51-57	787*/49-51-57	
		776**51-56-62	790**52-55-61	790**50-53-59	
28	848	767*/46-49-56	787*/49-51-57	794*/49-52-58	
		782**51-56-62	790**50-52-58		
25	849	768*/46-49-56	788*/49-51-57	795*/49-52-58	
		785**52-57-63	790**49-52-58		
22	850	769*/46-49-56	789*/49-51-58	796*/49-52-58	
		787**53-58-64			
19	851	770*/46-49-56	790*/49-51-58	797*/49-51-58	
		789**53-58-64			
16	852	771*/46-49-56	791*/49-51-58	797*/49-51-58	
		790**53-59-64			
13	853	772*/46-50-56	792*/49-51-58	798*/49-51-58	
		790**53-58-64			
10	854	772*/46-50-56	793*/49-51-58	799*/49-51-58	
		790**53-58-64			
5	855	774*/46-50-56	794*/49-51-58	800*/49-51-58	
		790**53-57-63			
0	856	774*/46-50-56	795*/49-51-58	801*/49-51-58	
		790**52-57-63			
-5	857	775*/47-50-56	795*/49-51-58	802*/49-51-58	
		790**52-57-63			
-10	857	775*/47-50-56	796*/49-51-58	803*/50-51-58	
		790**52-57-63			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1590 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3860 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
23/B 840 14477 0 1152 13661 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 144 FT

RUNWAY 16 ZGZJ

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	ZHANJIAGJICHANG ZJ/SOUTHCENTRAL
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 648	599F/32-33-38	643F/39-39-43	660F/40-40-43
58A 664	609F/33-34-39	654F/40-40-44	671F/41-41-45
55A 680	620F/34-35-41	666F/41-41-45	682F/43-43-46
52	631F/35-37-42	678F/42-42-46	695F/44-44-48
49	643F/36-38-43	692F/43-43-48	708F/45-45-49
46	655F/37-39-45	705F/43-44-49	721F/45-46-51
43	668F/38-40-46	717F/44-45-50	734F/46-47-52
40	680F/38-41-48	730F/45-46-52	747F/47-48-53
37	693F/39-42-49	743F/46-48-53	761F/48-49-55
34	706F/40-43-50	756F/46-49-54	774F/48-50-56
31	718F/41-44-51	769F/47-50-56	787F/49-51-57
28	725F/41-45-52	777F/48-50-57	795F/49-52-58
25	729F/42-45-53	781F/48-51-57	799F/49-52-58
22	732F/42-45-53	785F/48-51-57	803F/49-52-58
19	736F/42-46-53	789F/49-51-58	807F/49-52-58
16	739F/43-46-53	793F/49-52-58	812F/49-52-58
13	743F/43-47-54	797F/49-52-58	816F/49-52-58
10	747F/43-47-54	801F/49-51-58	820F/49-51-58
5	753F/44-48-55	808F/49-51-58	827F/49-51-58
0	759F/45-48-55	815F/49-51-58	834F/49-51-58
-5	765F/45-49-56	822F/49-51-58	841F/49-51-58
-10	855	772F/46-50-56	829F/49-51-58
			849F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 230 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.12 PERCENT FOR TODA AND -0.12 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 16 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 144 FT

RUNWAY 34 ZGZJ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF ZHANJIANG JICHANG
 737-800 CFM56-7B26 ZJ/SOUTHCENTRAL
 A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE DATED 10-JUN-2019

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	648	596F/32-33-38	632*/38-38-41	641*/39-39-42
58A	664	606F/33-34-39	645*/39-39-43	654*/40-40-44
55A	680	617F/34-35-40	658*/40-40-44	668*/41-41-45
52	698	628F/35-36-42	673*/41-42-46	684*/43-43-47
49	717	640F/36-37-43	688F/42-43-47	700*/44-44-49
46	736	652F/37-38-45	701F/43-44-49	716*/45-46-50
43	756	664F/37-40-46	714F/44-45-50	731F/46-47-52
40	775	677F/38-41-47	727F/45-46-52	744F/47-48-53
37	796	690F/39-42-49	740F/46-47-53	757F/48-49-54
34	815	703F/40-43-50	753F/46-48-54	770F/48-50-56
31	836	715F/41-44-51	766F/47-49-56	784F/49-51-57
28	846	722F/41-44-52	774F/48-50-56	792F/49-52-58
25	847	726F/42-45-52	778F/48-50-57	796F/49-52-58
22	848	729F/42-45-53	781F/48-51-57	800F/49-52-58
19	849	733F/42-45-53	785F/49-51-57	804F/50-52-58
16	850	736F/43-46-53	789F/49-51-58	808F/50-52-58
13	850	740F/43-46-54	793F/49-52-58	812F/50-52-58
10	851	744F/43-47-54	797F/49-51-58	816F/50-51-58
5	853	750F/44-47-54	804F/49-51-58	821*/50-51-58
0	854	756F/45-48-55	811F/49-51-58	824*/50-51-58
-5	855	762F/45-48-55	817*/49-51-58	827*/50-51-58
-10	855	768F/46-49-56	820*/49-51-58	831*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 150 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.12 PERCENT FOR TODA AND 0.12 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 34 43 750 0 197 4540 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 12L ZHCC

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XINZHENG JICHANG
ZZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	641	711F/38-39-42 673**51-54-57	751F/39-39-42 673**52-54-57	763F/39-39-42 673**52-54-57
58A	656	724F/39-40-44 689**52-55-58	766F/40-40-44 690**53-55-58	778F/40-40-44 690**53-55-58
55A	672	738F/41-42-46 705**53-56-59	781F/42-42-46 707**55-57-60	794F/42-42-46 707**55-57-60
52	690	753F/42-44-47 720**53-56-59	797F/43-44-47 725**56-59-62	810F/43-44-47 725**57-59-62
49	708	769F/44-45-49 733**52-55-58	813F/45-45-49 745**58-61-64	828F/45-45-49 745**58-61-64
46	728	784F/45-47-51 746**51-54-57	829F/46-47-51 766**60-63-66	845F/46-47-51 766**60-63-66
43	747	790B/47-49-53 758**50-53-57	844F/47-49-53 785**61-64-68	860F/48-49-53 786**62-65-68
40	766	781B/48-50-55 770**49-52-56	859F/49-50-55 790**56-59-63	862F/49-50-55 790**57-59-63
37	787	779B/49-51-56	862F/50-52-57 790**51-53-58	862F/50-52-57 790**52-53-58
34	806	785B/48-52-57	862F/50-52-57	862F/50-52-57
31	826	790B/48-52-57	862F/49-52-57	862F/50-52-57
28	839	799B/48-52-58	862F/49-52-58	862F/49-52-58
25	840	807B/48-52-58	862F/49-52-58	862F/49-52-58
22	841	815B/48-52-58	862F/49-52-58	862F/49-52-58
19	842	823B/48-52-58	862F/49-52-58	862F/49-52-58
16	843	831B/48-52-58	862F/49-52-58	862F/49-52-58
13	843	840B/48-52-58	862F/49-52-58	862F/49-52-58
10	844	848B/48-52-58	862F/49-52-58	862F/49-52-58
5	846	862F/48-52-58	862F/49-52-58	862F/49-52-58
0	847	862F/48-52-58	862F/49-52-58	862F/49-52-58
-5	847	862F/48-52-58	862F/49-52-58	862F/50-52-58
-10	848	862F/48-52-58	862F/49-52-58	862F/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.17 PERCENT FOR TODA AND -0.17 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
12L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 12L/D2 ZHCC

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	XINZHENG JICHANG ZZ/SOUTHCENTRAL			
737-800		CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE								
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)								
C	100KG	-10	0	10				
61A	641	682F/38-39-42 662**46-48-51	722F/39-39-42 673**52-54-57	736F/39-39-42 673**52-54-57				
58A	656	695F/39-40-44 677**47-48-52	736F/40-40-44 690**53-55-58	750F/40-40-44 690**53-55-58				
55A	672	708F/41-42-46 691**47-49-53	750F/42-42-46 707**55-57-60	764F/42-42-46 707**55-57-60				
52	690	723F/42-44-47 707**48-50-54	765F/43-44-47 725**56-59-62	780F/43-44-47 725**57-59-62				
49	708	738F/44-45-49 724**49-51-55	781F/45-45-49 743**57-60-63	796F/45-45-49 745**58-61-64				
46	728	753F/45-47-51 741**49-52-56	797F/46-47-51 761**58-60-64	813F/46-47-51 766**60-63-66				
43	747	768F/47-49-53 758**50-53-57	814F/47-49-53 779**58-61-65	829F/48-49-53 784**61-64-68				
40	766	781B/48-50-55 770**49-52-56	831F/49-50-55 790**56-59-63	846F/49-50-55 790**57-59-63				
37	787	779B/49-51-56	846F/50-52-57 790**51-53-58	862F/50-52-57 790**52-53-58				
34	806	785B/48-52-57	860F/50-52-57	862F/50-52-57				
31	826	790B/48-52-57	862F/49-52-57	862F/50-52-57				
28	839	799B/48-52-58	862F/49-52-58	862F/49-52-58				
25	840	807B/48-52-58	862F/49-52-58	862F/49-52-58				
22	841	815B/48-52-58	862F/49-52-58	862F/49-52-58				
19	842	823B/48-52-58	862F/49-52-58	862F/49-52-58				
16	843	831B/48-52-58	862F/49-52-58	862F/49-52-58				
13	843	840B/48-52-58	862F/49-52-58	862F/49-52-58				
10	844	848B/48-52-58	862F/49-52-58	862F/49-52-58				
5	846	862F/48-52-58	862F/49-52-58	862F/49-52-58				
0	847	862F/48-52-58	862F/49-52-58	862F/49-52-58				
-5	847	862F/48-52-58	862F/49-52-58	862F/50-52-58				
-10	848	862F/48-52-58	862F/49-52-58	862F/50-52-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3300 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.17 PERCENT FOR TODA AND -0.17 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 12L/D2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 12R ZHCC

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XINZHENG JICHANG
ZZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	641	657*/38-39-42 664**46-48-51	675*/39-39-42 673**52-54-57	680*/39-39-42 673**52-54-57
58A	656	672*/40-40-44 678**48-50-53	691*/40-40-44 690**53-55-58	696*/40-40-44 690**54-55-58
55A	672	688*/41-42-46 693**48-50-53	706*/42-42-46 707**55-57-60	712*/42-42-46 707**55-57-60
52	690	704*/42-44-47 709**49-51-54	723*/43-44-47 725**56-59-62	730*/44-44-47 725**57-59-62
49	708	721*/44-45-49 726**49-52-55	741*/45-45-49 745**58-61-64	748*/45-45-49 745**58-61-64
46	728	739*/45-47-51 743**50-53-56	760*/46-47-51 765**59-62-66	766*/46-47-51 766**60-63-66
43	747	756*/47-49-53 758**50-53-57	778*/47-49-53 782**60-63-67	785*/48-49-53 786**62-65-68
40	766	774*/48-50-55 770**49-52-56	796*/49-50-55 790**57-59-63	803*/49-50-55 790**57-59-63
37	787	780B/49-52-56	815*/50-52-57 790**51-53-58	822*/51-52-57 790**52-53-58
34	806	785B/49-52-57	831*/50-52-57	838*/50-52-57
31	826	791B/48-52-57	845*/49-52-57	853*/50-52-57
28	839	800B/48-52-58	855*/49-52-58	862F/49-52-58
25	840	808B/48-52-58	857*/49-52-58	862F/49-52-58
22	841	816B/48-52-58	859*/49-52-58	862F/49-52-58
19	842	824B/48-52-58	861*/49-52-58	862F/49-52-58
16	843	832B/48-52-58	862F/49-52-58	862F/49-52-58
13	843	839*/48-52-58	862F/49-52-58	862F/49-52-58
10	844	841*/48-52-58	862F/49-52-58	862F/49-52-58
5	846	844*/48-52-58	862F/49-52-58	862F/50-52-58
0	847	847*/48-52-58	862F/49-52-58	862F/50-52-58
-5	847	850*/48-52-58	862F/49-52-58	862F/50-52-58
-10	848	853*/48-52-58	862F/49-52-58	862F/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.09 PERCENT FOR TODA AND -0.09 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
12R 46 960 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 30L ZHCC

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			XINZHENG JICHANG ZZ/SOUTHCENTRAL			
737-800 CFM56-7B26		DATED 10-JUN-2019						
OAT C 100KG	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
		-10	0	10				
61A	641	643*/38-39-42	661*/39-39-42	666*/39-39-42				
		648**45-46-50	672**51-53-56	673**52-54-57				
58A	656	657*/40-40-44	676*/40-40-44	682*/40-40-44				
		663**46-48-51	687**52-54-57	690**54-55-58				
55A	672	672*/41-42-46	692*/42-42-46	698*/42-42-46				
		677**47-49-52	703**53-55-58	707**55-57-60				
52	690	688*/42-43-47	709*/43-44-47	715*/44-44-47				
		693**49-51-55	719**54-55-59	725**57-59-62				
49	708	705*/44-45-49	727*/45-45-49	733*/45-45-49				
		709**50-52-56	737**54-56-60	745**58-61-64				
46	728	723*/45-46-51	745*/46-47-51	751*/47-47-51				
		727**50-53-57	755**56-58-61	763**59-62-65				
43	747	740*/46-48-52	763*/48-49-53	769*/48-49-53				
		743**50-53-57	772**57-59-63	781**60-62-66				
40	766	758*/47-50-54	781*/49-50-55	788*/49-50-55				
		760**50-53-57	790**57-60-64	790**57-59-63				
37	787	776*/49-51-56	800*/51-52-57	807*/51-52-57				
			790**52-53-58	790**52-53-58				
34	806	786B/49-52-57	815*/50-52-57	823*/51-52-57				
31	826	792B/49-52-57	830*/50-52-57	838*/50-52-57				
28	839	802B/48-52-58	840*/49-52-58	848*/50-52-58				
25	840	810B/48-52-58	842*/49-52-58	850*/50-52-58				
22	841	818B/48-52-58	844*/49-52-58	852*/50-52-58				
19	842	821*/48-52-58	845*/49-52-58	854*/50-52-58				
16	843	823*/48-52-58	847*/49-52-58	855*/50-52-58				
13	843	824*/48-52-58	849*/49-52-58	857*/50-52-58				
10	844	826*/48-52-58	851*/49-52-58	859*/50-52-58				
5	846	829*/48-52-58	854*/49-52-58	862*/50-52-58				
0	847	832*/48-52-58	856*/49-52-58	862F/50-52-58				
-5	847	834*/48-52-58	859*/50-52-58	862F/50-52-58				
-10	848	837*/49-52-58	861*/50-52-58	862F/50-52-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.09 PERCENT FOR TODA AND 0.09 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 30L 62 1010 0 13 270 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 30R ZHCC

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XINZHENG JICHANG
ZZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	641	644*/38-39-42 657**49-52-55	660*/39-39-42 673**52-54-57	665*/39-39-42 673**52-54-57
58A	656	659*/40-40-44 672**51-53-56	676*/40-40-44 690**54-55-58	680*/40-40-44 690**54-55-58
55A	672	674*/41-42-46 687**52-55-58	692*/42-42-46 707**55-57-60	697*/42-42-46 707**55-57-60
52	690	691*/43-44-47 704**53-55-59	709*/44-44-47 725**57-59-62	714*/44-44-47 725**57-59-62
49	708	709*/44-45-49 721**53-55-59	727*/45-45-49 745**58-61-64	732*/45-45-49 745**59-61-64
46	728	727*/46-47-51 738**53-55-59	746*/47-47-51 764**60-63-66	752*/47-47-51 766**60-63-66
43	747	745*/47-49-53 753**51-54-58	764*/48-49-53 782**60-63-67	770*/48-49-53 786**62-65-68
40	766	763*/48-50-54 768**50-53-57	783*/49-50-55 790**57-59-63	789*/50-50-55 790**57-59-63
37	787	780B/49-52-56	802*/51-52-57 790**52-53-58	808*/51-52-57 790**52-53-58
34	806	786B/49-52-57	819*/50-52-57	825*/51-52-57
31	826	793B/49-52-57	835*/50-52-57	842*/50-52-57
28	839	802B/48-52-58	846*/49-52-58	853*/50-52-58
25	840	810B/48-52-58	847*/49-52-58	854*/50-52-58
22	841	818B/48-52-58	849*/49-52-58	856*/50-52-58
19	842	827B/48-52-58	851*/49-52-58	858*/50-52-58
16	843	830*/48-52-58	852*/49-52-58	859*/50-52-58
13	843	832*/48-52-58	853*/49-52-58	861*/50-52-58
10	844	833*/48-52-58	855*/49-52-58	862F/50-52-58
5	846	836*/48-52-58	857*/50-52-58	862F/50-52-58
0	847	838*/49-52-58	860*/50-52-58	862F/50-52-58
-5	847	840*/49-52-58	862*/50-52-58	862F/50-52-58
-10	848	842*/49-52-58	862F/50-52-58	862F/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.17 PERCENT FOR TODA AND 0.17 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 30R 85 1520 0 69 1200 0 16 290 0
 95 1670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 30R/D11 ZHCC

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF XINZHENG JICHANG
 ZZ/SOUTHCENTRAL
 737-800 CFM56-7B26 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	641	636*/38-38-42	654*/39-39-42	659*/39-39-42	
		646**45-47-51	669**52-53-56	673**52-54-57	
58A	656	651*/39-40-43	670*/40-40-44	675*/40-40-44	
		661**46-48-52	684**53-55-58	690**54-55-58	
55A	672	666*/41-41-45	685*/42-42-46	691*/42-42-46	
		675**47-49-52	700**54-56-59	707**55-57-60	
52	690	682*/42-43-47	702*/44-44-47	708*/44-44-47	
		691**49-51-54	716**55-57-61	725**57-59-62	
49	708	700*/43-44-48	720*/45-45-49	726*/45-45-49	
		708**50-52-56	734**56-58-62	742**58-61-64	
46	728	718*/45-46-50	739*/47-47-51	745*/47-47-51	
		725**50-53-57	752**57-59-63	761**59-62-65	
43	747	735*/46-47-52	757*/48-49-53	763*/48-49-53	
		741**50-52-57	770**57-59-63	779**59-61-65	
40	766	753*/47-49-54	775*/49-50-55	782*/50-50-55	
		758**50-53-58	788**58-61-65	790**57-59-63	
37	787	772*/48-51-55	794*/51-52-57	801*/51-52-57	
		774**50-53-57	790**52-53-58	790**52-53-58	
34	806	786B/49-52-57	810*/50-52-57	817*/51-52-57	
31	826	793B/49-52-57	826*/50-52-57	833*/50-52-57	
28	839	802B/48-52-58	836*/49-52-58	844*/50-52-58	
25	840	810B/48-52-58	838*/49-52-58	846*/50-52-58	
22	841	817*/48-52-58	840*/49-52-58	847*/50-52-58	
19	842	819*/48-52-58	841*/49-52-58	849*/50-52-58	
16	843	820*/48-52-58	843*/49-52-58	850*/50-52-58	
13	843	822*/48-52-58	844*/49-52-58	852*/50-52-58	
10	844	823*/48-52-58	846*/49-52-58	853*/50-52-58	
5	846	826*/48-52-58	848*/50-52-58	856*/50-52-58	
0	847	828*/49-52-58	851*/50-52-58	858*/50-52-58	
-5	847	830*/49-52-58	853*/50-52-58	860*/50-52-58	
-10	848	832*/49-52-58	855*/50-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3300 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.17 PERCENT FOR TODA AND 0.17 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 30R/D11 85 1520 0 69 1200 0 16 290 0
 95 1670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 04L ZHHH

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

TIANHEJICHANG
WH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	C 100KG	-10	0	10
61A	649	659*/39-40-43	676*/40-40-43	681*/40-40-43	
		665**47-49-52	682**53-54-58	682**53-54-58	
58A	664	674*/41-41-45	691*/41-41-45	697*/41-41-45	
		680**48-50-53	698**54-56-59	698**55-56-59	
55A	680	689*/42-43-46	707*/43-43-46	713*/43-43-46	
		695**49-51-55	715**56-58-61	715**56-58-61	
52	698	706*/44-44-48	725*/44-44-48	731*/44-44-48	
		711**50-53-56	735**58-60-63	735**58-60-63	
49	717	724*/45-46-50	743*/46-46-50	749*/46-46-50	
		728**52-54-58	754**59-61-65	755**60-62-65	
46	737	742*/46-48-52	762*/47-48-52	768*/48-48-52	
		746**51-54-57	772**60-62-66	776**61-64-67	
43	756	759*/48-50-54	780*/49-50-54	787*/49-50-54	
		763**51-53-57	790**60-63-66	790**60-63-66	
40	776	778*/49-51-56	799*/50-51-56	805*/50-51-56	
		779**50-52-56	790**54-56-60	790**55-56-60	
37	796	787B/50-52-57	816*/51-52-57	824*/51-52-57	
34	816	794B/49-52-57	832*/50-52-57	839*/50-52-57	
31	837	805B/49-52-57	847*/49-52-57	855*/50-52-57	
28	846	815B/48-52-58	854*/49-52-58	862F/50-52-58	
25	847	823B/48-52-58	856*/49-52-58	862F/50-52-58	
22	848	831B/48-52-58	858*/49-52-58	862F/50-52-58	
19	849	835*/48-52-58	860*/49-52-58	862F/50-52-58	
16	850	837*/48-52-58	862F/49-52-58	862F/50-52-58	
13	851	839*/48-51-58	862F/49-51-58	862F/50-51-58	
10	852	841*/48-51-58	862F/49-51-58	862F/50-51-58	
5	853	844*/48-51-58	862F/49-51-58	862F/50-51-58	
0	854	847*/48-51-58	862F/49-51-58	862F/50-51-58	
-5	855	849*/48-51-58	862F/49-51-58	862F/50-51-58	
-10	856	852*/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 70 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.19 PERCENT FOR TODA AND 0.19 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 04L 7 225 0 16 380 0 49 950 0
 52 1790 0 138 3890 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 04R ZHHH

TIANHEJICHANG
WH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	649	717F/39-40-43	755F/40-40-43	767F/40-40-43	
		682**52-54-58	682**53-54-58	682**53-54-58	
58A	664	731F/40-41-45	770F/41-41-45	783F/41-41-45	
		697**53-55-59	698**54-56-59	698**54-56-59	
55A	680	745F/42-43-46	786F/43-43-46	798F/43-43-46	
		712**53-56-59	715**56-58-61	715**56-58-61	
52	698	760F/43-44-48	803F/44-44-48	815F/44-44-48	
		728**54-56-60	735**57-60-63	735**58-60-63	
49	717	776F/45-46-50	820F/46-46-50	833F/46-46-50	
		741**52-55-59	755**59-62-65	755**59-62-65	
46	737	790F/46-48-52	836F/47-48-52	852F/47-48-52	
		754**51-54-58	776**61-64-67	776**61-64-67	
43	756	793B/48-50-54	851F/48-50-54	862F/49-50-54	
		766**50-53-57	790**60-63-66	790**60-63-66	
40	776	785B/49-51-56	862F/50-51-56	862F/50-51-56	
		778**50-52-56	790**54-56-60	790**54-56-60	
37	796	786B/49-52-57	862F/51-52-57	862F/51-52-57	
34	816	793B/49-52-57	862F/50-52-57	862F/50-52-57	
31	837	804B/48-52-57	862F/49-52-57	862F/50-52-57	
28	846	813B/48-52-58	862F/49-52-58	862F/49-52-58	
25	847	821B/48-52-58	862F/49-52-58	862F/49-52-58	
22	848	829B/48-52-58	862F/49-52-58	862F/49-52-58	
19	849	837B/48-52-58	862F/49-52-58	862F/49-52-58	
16	850	845B/48-52-58	862F/49-52-58	862F/49-52-58	
13	851	854B/48-51-58	862F/49-51-58	862F/49-51-58	
10	852	862F/48-51-58	862F/49-51-58	862F/49-51-58	
5	853	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	854	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	855	862F/48-51-58	862F/49-51-58	862F/50-51-58	
-10	856	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
04R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 04R/E3 ZHHH

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

TIANHEJICHANG
WH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	C 100KG	-10	0	10
61A	649	696F/39-40-43	736F/40-40-43	748F/40-40-43	
		673**48-50-53	682**53-54-58	682**53-54-58	
58A	664	709F/40-41-45	751F/41-41-45	763F/41-41-45	
		688**49-51-54	698**54-56-59	698**54-56-59	
55A	680	723F/42-43-46	765F/43-43-46	778F/43-43-46	
		703**49-51-55	715**56-58-61	715**56-58-61	
52	698	738F/43-44-48	781F/44-44-48	795F/44-44-48	
		719**50-52-56	735**57-60-63	735**58-60-63	
49	717	753F/45-46-50	797F/46-46-50	812F/46-46-50	
		736**51-53-57	754**59-62-65	755**59-62-65	
46	737	769F/46-48-52	814F/47-48-52	830F/47-48-52	
		753**51-54-58	773**59-62-66	776**61-64-67	
43	756	783F/48-50-54	830F/48-50-54	846F/49-50-54	
		766**50-53-57	790**60-63-66	790**60-63-66	
40	776	785B/49-51-56	846F/50-51-56	862F/50-51-56	
		778**50-52-56	790**54-56-60	790**54-56-60	
37	796	786B/49-52-57	861F/51-52-57	862F/51-52-57	
34	816	793B/49-52-57	862F/50-52-57	862F/50-52-57	
31	837	804B/48-52-57	862F/49-52-57	862F/50-52-57	
28	846	813B/48-52-58	862F/49-52-58	862F/49-52-58	
25	847	821B/48-52-58	862F/49-52-58	862F/49-52-58	
22	848	829B/48-52-58	862F/49-52-58	862F/49-52-58	
19	849	837B/48-52-58	862F/49-52-58	862F/49-52-58	
16	850	845B/48-52-58	862F/49-52-58	862F/49-52-58	
13	851	854B/48-51-58	862F/49-51-58	862F/49-51-58	
10	852	862F/48-51-58	862F/49-51-58	862F/49-51-58	
5	853	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	854	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	855	862F/48-51-58	862F/49-51-58	862F/50-51-58	
-10	856	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3380 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
04R/E3 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 22L ZHHH

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

TIANHEJICHANG
WH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	649	636*/37-38-42	655*/40-40-43	661*/40-40-43	
		646**47-50-54	669**51-53-56	677**52-54-57	
58A	664	651*/39-40-44	670*/41-41-45	677*/41-41-45	
		660**49-51-55	684**52-54-58	692**54-55-59	
55A	680	665*/40-41-45	686*/43-43-46	692*/43-43-46	
		675**50-53-57	699**54-56-59	707**55-57-60	
52	698	682*/41-43-47	703*/44-44-48	710*/44-44-48	
		691**50-53-57	716**55-57-61	724**56-59-62	
49	717	699*/43-44-48	721*/46-46-50	728*/46-46-50	
		708**50-53-57	734**56-59-63	742**58-60-64	
46	737	717*/44-46-50	739*/47-48-52	747*/47-48-52	
		725**51-54-59	752**56-58-62	761**58-61-65	
43	756	735*/45-47-52	758*/48-50-54	765*/49-50-54	
		742**52-55-60	769**56-59-63	778**59-62-66	
40	776	753*/46-49-54	776*/50-51-56	784*/50-51-56	
		758**52-56-60	787**58-61-65	790**54-56-60	
37	796	771*/48-50-55	795*/51-52-57	802*/51-52-57	
		775**50-54-59			
34	816	789*/49-52-57	811*/50-52-57	818*/50-52-57	
31	837	804B/48-52-57	827*/49-52-57	835*/50-52-57	
28	846	811*/48-52-58	835*/49-52-58	842*/49-52-58	
25	847	813*/48-52-58	837*/49-52-58	844*/49-52-58	
22	848	814*/48-52-58	838*/49-52-58	846*/49-52-58	
19	849	816*/48-52-58	840*/49-52-58	847*/49-52-58	
16	850	818*/48-52-58	841*/49-52-58	849*/49-52-58	
13	851	819*/48-51-58	843*/49-51-58	851*/49-51-58	
10	852	821*/48-51-58	845*/49-51-58	852*/49-51-58	
5	853	823*/48-51-58	847*/49-51-58	855*/49-51-58	
0	854	826*/48-51-58	850*/49-51-58	857*/49-51-58	
-5	855	828*/48-51-58	852*/49-51-58	859*/50-51-58	
-10	856	830*/48-51-58	854*/49-51-58	861*/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22L 121 2280 0 121 2660 0 118 1490 0
 121 2039 0 121 2469 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 22L/E14 ZHHH

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

TIANHEJICHANG
WH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	649	629*/36-37-41 637**45-48-52	649*/40-40-43 661**50-52-55	656*/40-40-43 669**51-53-56
58A	664	643*/38-39-43	664*/41-41-45 651**46-49-52	671*/41-41-45 683**52-54-58
55A	680	658*/39-40-44 665**46-49-53	679*/42-43-46 690**53-55-58	686*/43-43-46 699**54-56-59
52	698	674*/40-42-46	696*/44-44-48 681**47-50-54	703*/44-44-48 707**54-56-60
49	717	691*/42-43-48	714*/45-46-50	721*/46-46-50
		698**48-51-55	724**54-57-61	733**57-59-63
46	737	709*/43-45-50	732*/46-47-52 715**49-53-57	740*/47-48-52 742**54-57-61
43	756	726*/44-46-51	750*/48-49-53 731**51-54-59	758*/49-50-54 769**57-59-63
40	776	744*/46-48-53 748**51-55-60	768*/49-50-55 777**57-60-64	776*/50-51-56 787**58-61-65
37	796	762*/47-49-55	787*/50-52-57 765**52-56-61	795*/51-52-57
34	816	779*/48-51-56 781**50-54-59	804*/50-52-57	811*/50-52-57
31	837	796*/48-52-57	819*/49-52-57	827*/50-52-57
28	846	803*/48-52-58	827*/49-52-58	835*/49-52-58
25	847	804*/48-52-58	829*/49-52-58	837*/49-52-58
22	848	806*/48-52-58	830*/49-52-58	838*/49-52-58
19	849	807*/48-52-58	832*/49-52-58	840*/49-52-58
16	850	809*/48-52-58	834*/49-52-58	842*/49-52-58
13	851	811*/48-51-58	835*/49-51-58	843*/49-51-58
10	852	812*/48-51-58	837*/49-51-58	845*/49-51-58
5	853	815*/48-51-58	839*/49-51-58	847*/49-51-58
0	854	817*/48-51-58	842*/49-51-58	850*/49-51-58
-5	855	819*/48-51-58	844*/49-51-58	852*/50-51-58
-10	856	821*/48-51-58	846*/49-51-58	854*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3380 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22L/E14 121 2280 0 121 2660 0 118 1490 0
 121 2039 0 121 2469 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 22R ZHHH

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

TIANHEJICHANG
WH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	649	666*/39-40-43	684*/40-40-43	690*/40-40-43	
		672**47-49-52	682**53-54-58	682**53-54-58	
58A	664	681*/40-41-45	699*/41-41-45	705*/41-41-45	
		687**48-51-54	698**54-56-59	698**54-56-59	
55A	680	696*/41-43-46	715*/42-43-46	721*/43-43-46	
		701**49-51-55	715**55-58-61	715**56-58-61	
52	698	713*/43-44-48	733*/44-44-48	739*/44-44-48	
		718**49-52-55	735**57-60-63	735**57-60-63	
49	717	730*/44-46-50	751*/45-46-50	757*/45-46-50	
		735**50-53-56	755**59-62-65	755**59-62-65	
46	737	748*/46-48-52	769*/47-48-52	776*/47-48-52	
		753**51-54-58	775**60-63-67	776**61-64-67	
43	756	766*/47-50-54	788*/48-50-54	795*/48-50-54	
		766**50-53-57	790**59-63-66	790**60-63-66	
40	776	784B/49-51-56	806*/49-51-56	813*/50-51-56	
		778**49-52-56	790**54-56-60	790**54-56-60	
37	796	785B/49-52-57	824*/50-52-57	832*/51-52-57	
34	816	791B/49-52-57	839*/50-52-57	847*/50-52-57	
31	837	802B/48-52-57	855*/49-52-57	862F/49-52-57	
28	846	811B/48-52-58	862F/49-52-58	862F/49-52-58	
25	847	819B/48-52-58	862F/49-52-58	862F/49-52-58	
22	848	827B/48-52-58	862F/49-52-58	862F/49-52-58	
19	849	835B/48-52-58	862F/49-52-58	862F/49-52-58	
16	850	843B/48-52-58	862F/49-52-58	862F/49-52-58	
13	851	846*/48-51-58	862F/49-51-58	862F/49-51-58	
10	852	848*/48-51-58	862F/49-51-58	862F/49-51-58	
5	853	851*/48-51-58	862F/49-51-58	862F/49-51-58	
0	854	854*/48-51-58	862F/49-51-58	862F/49-51-58	
-5	855	857*/48-51-58	862F/49-51-58	862F/49-51-58	
-10	856	860*/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 110 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.19 PERCENT FOR TODA AND -0.19 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
22R 7 225 0 49 1002 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 22R/B10 ZHHH

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

TIANHEJICHANG
WH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	649	649*/39-40-43	671*/40-40-43	677*/40-40-43
		651**42-43-47	677**50-52-55	682**53-54-58
58A	664	663*/40-41-45	686*/41-41-45	693*/41-41-45
		665**42-44-48	691**51-52-55	697**53-55-58
55A	680	678*/41-42-46	701*/42-43-46	708*/43-43-46
		679**43-45-49	706**51-53-56	712**54-56-59
52	698	694*/42-44-48	718*/44-44-48	725*/44-44-48
		695**44-46-50	722**52-54-57	728**54-56-60
49	717	711*/44-45-49	736*/45-46-50	743*/45-46-50
			739**52-54-58	746**55-57-61
46	737	728*/45-47-51	754*/47-48-52	761*/47-48-52
			756**53-55-59	764**56-58-61
43	756	743F/46-48-53	772*/48-50-54	779*/48-50-54
			773**53-56-60	781**56-59-62
40	776	757F/47-49-54	790*/49-51-56	798*/50-51-56
			790**54-56-60	790**54-56-60
37	796	770F/47-50-55	807*/50-52-57	815*/51-52-57
34	816	784F/48-51-57	821*/50-52-57	829*/50-52-57
31	837	797F/48-52-57	835*/49-52-57	844*/49-52-57
28	846	805F/48-52-58	842*/49-52-58	851*/49-52-58
25	847	809F/48-52-58	844*/49-52-58	854*/49-52-58
22	848	813F/48-52-58	847*/49-52-58	856*/49-52-58
19	849	817F/48-52-58	849*/49-52-58	858*/49-52-58
16	850	820*/48-52-58	851*/49-52-58	860*/49-52-58
13	851	823*/48-51-58	853*/49-51-58	862F/49-51-58
10	852	825*/48-51-58	855*/49-51-58	862F/49-51-58
5	853	830*/48-51-58	858*/49-51-58	862F/49-51-58
0	854	833*/48-51-58	861*/49-51-58	862F/49-51-58
-5	855	836*/48-51-58	862F/49-51-58	862F/49-51-58
-10	856	839*/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 110 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.19 PERCENT FOR TODA AND -0.19 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22R/B10 7 225 0 49 1002 0

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 236 FT

RUNWAY 01 ZHXF

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				LIUJIJICHANG XY/SOUTHCENTRAL
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		DATED 29-JUN-2019
C	100KG	-10	0	10
61A	646	609F/34-35-39	648F/39-39-43 647**40-40-43	662F/39-39-43 655**43-43-46
58A	662	620F/35-36-40	660F/41-41-44	674F/41-41-44 669**43-43-47
55A	678	631F/36-37-42	672F/42-42-46	687F/42-42-46 683**44-44-48
52	696	644F/37-38-43	686F/43-43-47	701F/44-44-48 698**45-45-49
49	715	657F/38-39-45	700F/44-44-48	715F/46-46-50
46	734	671F/39-41-46	714F/45-45-50	730F/47-47-51
43	753	684F/40-42-48	729F/46-47-51	744F/47-48-53
40	773	697F/41-43-49	743F/47-48-53	759F/48-50-54
37	793	710F/41-44-50	759F/47-49-54	775F/49-51-56
34	813	722F/42-45-52	773F/48-50-56	790F/50-52-57
31	834	735F/43-46-53	786F/49-51-57	804F/50-52-57
28	844	742F/43-47-54	794F/49-52-58	813F/49-52-58
25	845	746F/44-47-54	798F/49-52-58	817F/49-52-58
22	846	750F/44-47-54	802F/49-52-58	821F/49-52-58
19	847	753F/44-48-55	806F/49-52-58	825F/49-52-58
16	848	757F/45-48-55	810F/49-52-58	829F/49-52-58
13	849	761F/45-48-55	814F/49-52-58	833F/49-52-58
10	850	764F/46-49-56	819F/49-52-58	837F/50-52-58
5	851	771F/46-49-56	826F/49-52-58	844F/50-52-58
0	852	777F/47-50-57	833F/49-51-58	852F/50-51-58
-5	853	783F/48-51-57	840F/49-51-58	859F/50-51-58
-10	853	790F/48-51-58	846F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
01

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 236 FT

RUNWAY 19 ZHXF

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF LIUJIJICHANG
 XY/SOUTHCENTRAL
 737-800 CFM56-7B26 DATED 29-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	646	610F/34-35-39	649F/39-39-43	664F/39-39-43
			648**40-40-43	655**43-43-46
58A	662	621F/35-36-41	661F/41-41-44	676F/41-41-44
				669**44-44-47
55A	678	633F/36-37-42	674F/42-42-46	688F/42-42-46
				684**44-44-48
52	696	645F/37-38-43	687F/43-43-47	702F/44-44-48
				699**45-45-49
49	715	658F/38-40-45	701F/44-44-49	716F/45-46-50
46	734	672F/39-41-46	716F/45-46-50	731F/47-47-51
43	753	685F/40-42-48	730F/46-47-52	746F/48-48-53
40	773	698F/41-43-49	745F/47-48-53	761F/48-50-54
37	793	711F/41-44-50	760F/47-49-55	776F/49-51-56
34	813	724F/42-45-52	774F/48-50-56	791F/50-52-57
31	834	736F/43-46-53	787F/49-52-57	805F/50-52-57
28	844	744F/43-47-54	796F/49-52-58	814F/49-52-58
25	845	747F/44-47-54	800F/49-52-58	818F/49-52-58
22	846	751F/44-47-54	804F/49-52-58	822F/49-52-58
19	847	755F/44-48-55	808F/49-52-58	826F/49-52-58
16	848	758F/45-48-55	812F/49-52-58	831F/49-52-58
13	849	762F/45-49-55	816F/49-52-58	835F/49-52-58
10	850	766F/46-49-56	820F/49-52-58	839F/49-52-58
5	851	772F/46-50-56	827F/49-52-58	846F/49-52-58
0	852	778F/47-50-57	834F/49-51-58	853F/49-51-58
-5	853	785F/48-51-57	841F/49-51-58	861F/50-51-58
-10	853	791F/48-51-58	848F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
 75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 673 FT

RUNWAY 14

ZHYC

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				SANXIAJICHANG YC/SOUTHCENTRAL
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	637	612F/35-35-39	656F/38-38-42	670F/38-38-42
			647**42-42-46	653**45-45-48
58A	653	622F/36-36-41	669F/40-40-44	682F/40-40-44
			661**43-43-47	667**46-46-49
55A	669	632F/37-37-42	681F/42-42-45	696F/42-42-45
			676**44-44-47	682**47-47-50
52	686	643F/38-38-43	695F/43-43-47	709F/43-43-47
			690**45-45-48	697**47-47-51
49	704	654F/39-39-44	707F/45-45-49	724F/45-45-49
			706**45-45-49	713**48-48-52
46	724	667F/40-40-46	719F/46-46-50	736F/47-47-51
				729**49-49-52
43	742	679F/41-41-47	730F/47-47-51	748F/48-48-52
				745**49-49-53
40	762	692F/42-43-48	742F/48-48-53	760F/50-50-54
37	782	705F/43-44-50	753F/49-49-54	772F/51-51-55
34	802	718F/43-45-51	767F/50-50-55	784F/52-52-57
31	821	729F/44-46-52	780F/50-51-56	797F/52-52-57
28	835	739F/44-46-53	790F/51-52-57	808F/51-52-57
25	837	743F/45-47-54	794F/51-52-57	812F/51-52-57
22	838	746F/45-47-54	798F/51-52-58	816F/51-52-58
19	838	750F/46-47-54	802F/51-52-58	820F/51-52-58
16	839	753F/46-48-55	806F/51-52-58	824F/51-52-58
13	840	757F/46-48-55	810F/51-52-58	828F/51-52-58
10	841	761F/47-49-55	814F/51-52-58	832F/51-52-58
5	842	767F/48-49-56	820F/51-52-58	839F/51-52-58
0	843	773F/48-50-56	827F/51-52-58	846F/51-52-58
-5	844	779F/49-51-57	834F/51-52-58	853F/51-52-58
-10	844	786F/50-51-57	841F/51-52-58	860F/51-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 460 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 300 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.57 PERCENT FOR TODA AND -0.57 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 14 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 673 FT

RUNWAY 32 ZHYC

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	SANXIAJICHANG YC/SOUTHCENTRAL DATED 10-JUN-2019
737-800	CFM56-7B26		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C	100KG	-10 0 10	
61A	637	593F/33-33-37	631F/38-38-41 645F/38-38-42 641**40-40-43
58A	653	604F/34-34-39	643F/39-39-43 657F/40-40-44 655**41-41-44
55A	669	616F/35-35-40	655F/40-40-44 669F/42-42-45
52	686	628F/36-36-42	668F/41-41-45 682F/43-43-47
49	704	640F/37-38-43	681F/42-42-47 696F/44-44-48
46	724	653F/38-39-44	695F/44-44-48 710F/45-45-50
43	742	667F/39-40-46	709F/45-45-50 725F/46-46-51
40	762	680F/40-41-47	724F/46-46-51 739F/48-48-52
37	782	695F/41-42-49	739F/47-47-53 754F/49-49-54
34	802	709F/42-44-50	754F/48-49-54 769F/50-50-55
31	821	722F/43-45-52	768F/49-50-55 784F/51-51-57
28	835	732F/44-46-53	779F/50-51-57 795F/51-52-57
25	837	736F/44-46-53	783F/50-51-57 799F/51-52-57
22	838	739F/45-46-53	786F/50-51-57 803F/51-52-58
19	838	743F/45-47-54	790F/51-52-58 807F/51-52-58
16	839	746F/45-47-54	794F/51-52-58 811F/51-52-58
13	840	750F/46-47-54	798F/51-52-58 815F/51-52-58
10	841	753F/46-48-55	802F/51-52-58 819F/51-52-58
5	842	759F/47-48-55	808F/51-52-58 826F/51-52-58
0	843	765F/47-49-56	815F/51-52-58 833F/51-52-58
-5	844	771F/48-50-56	822F/51-52-58 840F/51-52-58
-10	844	777F/49-50-57	829F/51-52-58 847F/51-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.57 PERCENT FOR TODA AND -0.57 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

32 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 75 FT

RUNWAY 09 ZJHK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

MEILANJICHANG
HK/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	650	644*/38-39-43 658**49-51-55	661*/40-40-43 679**52-54-57	667*/40-40-43 683**53-55-58
58A	665	658*/39-40-44 672**50-53-56	676*/41-41-45 694**54-56-59	682*/41-41-45 699**54-56-59
55A	681	674*/41-42-46 688**51-54-58	692*/43-43-46 710**55-57-61	698*/43-43-46 716**56-58-61
52	699	691*/42-43-48 704**53-56-60	710*/44-44-48 728**56-59-62	716*/44-44-48 735**57-60-63
49	718	708*/44-45-49 721**54-58-62	728*/45-46-50 746**58-61-64	734*/46-46-50 754**59-62-65
46	738	727*/45-47-51 739**53-57-61	747*/47-48-52 764**59-62-66	753*/47-48-52 773**60-63-67
43	757	745*/46-48-53 754**52-55-59	766*/48-50-54 782**61-64-68	772*/49-50-54 790**59-62-66
40	777	763*/47-50-55 769**51-54-58	784*/50-51-56 790**54-56-60	791*/50-51-56 790**54-56-60
37	797	782*/49-52-56 783**49-53-57	803*/50-52-57	809*/51-52-57
34	817	793B/49-52-57	819*/50-52-57	826*/50-52-57
31	838	804B/48-52-57	837*/49-52-57	844*/49-52-57
28	847	813B/48-52-58	844*/49-52-58	851*/49-52-58
25	848	821B/48-52-58	846*/49-52-58	853*/49-52-58
22	849	825*/48-52-58	847*/49-52-58	855*/49-52-58
19	850	827*/48-52-58	849*/49-52-58	856*/49-52-58
16	851	828*/48-51-58	850*/49-51-58	858*/49-51-58
13	852	830*/48-51-58	852*/49-51-58	859*/49-51-58
10	853	831*/48-51-58	853*/49-51-58	861*/49-51-58
5	854	834*/48-51-58	856*/49-51-58	862F/49-51-58
0	855	836*/48-51-58	858*/49-51-58	862F/49-51-58
-5	856	838*/48-51-58	860*/49-51-58	862F/49-51-58
-10	856	839*/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.08 PERCENT FOR TODA AND -0.08 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
09 59 1150 0 144 2210 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 75 FT

RUNWAY 27 ZJHK

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			MEILAN JICHANG HK/SOUTHCENTRAL
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			DATED 10-JUN-2019
OAT	CLIMB	C 100KG	-10	0	10
61A	650	667*/39-40-43	684*/40-40-43	689*/40-40-43	
		678**50-52-55	683**53-55-58	683**53-55-58	
58A	665	682*/41-41-45	699*/41-41-45	705*/41-41-45	
		693**51-53-56	699**54-56-59	699**55-56-59	
55A	681	698*/42-43-46	716*/43-43-46	721*/43-43-46	
		708**51-53-57	716**56-58-61	716**56-58-61	
52	699	715*/43-44-48	733*/44-44-48	739*/44-44-48	
		725**52-55-58	735**57-60-63	735**58-60-63	
49	718	733*/45-46-50	752*/46-46-50	758*/46-46-50	
		742**53-55-59	756**59-62-65	756**59-62-65	
46	738	752*/46-48-52	771*/47-48-52	777*/47-48-52	
		755**52-54-58	777**61-64-67	777**61-64-67	
43	757	770*/48-50-54	789*/49-50-54	796*/49-50-54	
		767**51-53-57	790**59-62-66	790**60-62-66	
40	777	785B/49-51-56	808*/50-51-56	815*/50-51-56	
		779**50-52-56	790**54-56-60	790**54-56-60	
37	797	787B/49-52-57	826*/51-52-57	833*/51-52-57	
34	817	795B/49-52-57	842*/50-52-57	850*/50-52-57	
31	838	806B/48-52-57	859*/49-52-57	862F/50-52-57	
28	847	815B/48-52-58	862F/49-52-58	862F/49-52-58	
25	848	823B/48-52-58	862F/49-52-58	862F/49-52-58	
22	849	831B/48-52-58	862F/49-52-58	862F/49-52-58	
19	850	839B/48-52-58	862F/49-52-58	862F/49-52-58	
16	851	847B/48-51-58	862F/49-51-58	862F/49-51-58	
13	852	851*/48-51-58	862F/49-51-58	862F/49-51-58	
10	853	853*/48-51-58	862F/49-51-58	862F/49-51-58	
5	854	856*/48-51-58	862F/49-51-58	862F/50-51-58	
0	855	859*/48-51-58	862F/49-51-58	862F/50-51-58	
-5	856	861*/48-51-58	862F/49-51-58	862F/50-51-58	
-10	856	862F/48-51-58	862F/49-51-58	862F/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.08 PERCENT FOR TODA AND 0.08 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 27 52 1050 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 95 FT

RUNWAY 08

ZJSY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				FENGHUANG JICHANG SY/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26		61A 649	602*/33-34-38 618*/36-36-40 623*/37-37-41
				622**44-47-51 640**47-49-53 646**48-50-53
			58A 665	616*/34-35-40 633*/37-37-42 638*/38-38-42
				637**46-48-53 655**49-51-55 661**50-52-55
			55A 681	631*/36-37-42 648*/39-39-43 653*/40-40-44
				652**47-50-54 671**50-52-56 677**51-53-57
			52 699	647*/37-39-44 665*/40-41-45 670*/41-41-46
				669**49-52-56 688**52-54-58 694**53-55-59
			49 718	665*/39-40-45 682*/42-42-47 688*/43-43-48
				686**50-54-58 706**53-56-60 713**54-57-61
			46 738	682*/40-42-47 700*/43-44-49 706*/44-45-49
				704**52-55-60 725**55-58-62 731**56-59-63
			43 757	700*/42-43-49 718*/45-45-51 724*/46-46-51
				722**53-57-62 743**56-60-64 750**57-60-65
			40 777	717*/43-45-51 735*/46-47-52 742*/47-48-53
				739**54-59-64 761**58-61-66 768**59-62-66
			37 797	734*/44-46-52 753*/47-49-54 760*/48-49-55
				754**53-58-63 779**59-63-68 786**60-64-68
			34 817	752*/45-48-54 772*/48-50-56 778*/49-51-56
				768**52-56-62 790**56-59-64 790**54-56-61
			31 838	771*/47-50-56 791*/50-52-57 798*/50-52-57
				782**51-55-61
			28 847	779*/47-50-57 799*/49-52-58 805*/50-52-58
				789**51-55-61
			25 848	780*/47-50-57 800*/49-52-58 807*/50-52-58
				790**51-55-61
			22 849	781*/47-51-57 801*/49-52-58 808*/50-52-58
				790**51-55-61
			19 850	782*/47-51-57 802*/49-52-58 809*/50-52-58
				790**51-54-60
			16 850	783*/48-51-57 803*/49-52-58 810*/50-52-58
				790**50-54-60
			13 851	784*/48-51-57 804*/49-51-58 811*/50-51-58
				790**50-53-60
			10 852	785*/48-51-57 805*/49-51-58 812*/50-51-58
				790**50-53-59
			5 854	786*/48-51-57 806*/49-51-58 813*/50-51-58
				790**49-53-59
			0 855	787*/48-51-57 808*/49-51-58 814*/50-51-58
				790**49-52-59
			-5 855	788*/48-51-58 809*/49-51-58 816*/50-51-58
				790**49-52-58
			-10 856	789*/48-51-58 809*/50-51-58 816*/50-51-58
				790**49-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 940 FT
 LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.24 PERCENT FOR TODA AND 0.24 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 08 636 8106 0 525 7776 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 95 FT

RUNWAY 26 ZJSY

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			FENGHUANG JICHANG SY/SOUTHCENTRAL DATED 10-JUN-2019	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
OAT	CLIMB	C 100KG	-10	0	10	
61A	649	624*/35-37-41	641*/38-39-42	646*/39-39-43		
		642**46-49-53	661**50-52-55	667**51-53-56		
58A	665	639*/37-38-42	656*/40-40-44	661*/41-41-44		
		657**48-51-55	676**51-53-57	683**52-54-58		
55A	681	654*/38-40-44	671*/41-42-46	677*/42-42-46		
		672**49-53-56	692**52-55-59	699**53-56-59		
52	699	670*/40-41-46	688*/43-43-47	694*/44-44-48		
		689**51-54-58	710**54-57-60	717**55-58-61		
49	718	688*/41-43-47	706*/44-45-49	713*/45-46-50		
		706**52-56-60	728**55-59-62	735**56-59-63		
46	738	706*/43-44-49	725*/45-47-51	731*/46-47-51		
		724**53-58-62	746**57-60-64	754**58-61-65		
43	757	724*/44-46-51	743*/47-48-53	750*/48-49-53		
		740**53-57-62	765**58-62-66	772**59-63-67		
40	777	742*/45-48-53	762*/48-50-54	768*/49-50-55		
		755**52-56-61	783**60-64-68	790**60-63-68		
37	797	760*/46-49-55	780*/49-51-56	787*/50-52-57		
		769**51-55-60	790**53-56-61	790**51-53-58		
34	817	778*/47-51-56	799*/50-52-57	805*/50-52-57		
		783**49-53-59				
31	838	796*/48-52-57	817*/49-52-57	824*/49-52-57		
28	847	804*/48-52-58	825*/49-52-58	831*/49-52-58		
25	848	805*/48-52-58	826*/49-52-58	833*/49-52-58		
22	849	806*/48-52-58	827*/49-52-58	834*/49-52-58		
19	850	808*/48-52-58	829*/49-52-58	836*/49-52-58		
16	850	809*/48-52-58	830*/49-52-58	837*/49-52-58		
13	851	810*/48-51-58	831*/49-51-58	838*/49-51-58		
10	852	811*/48-51-58	832*/49-51-58	839*/49-51-58		
5	854	813*/48-51-58	834*/49-51-58	841*/49-51-58		
0	855	815*/48-51-58	836*/49-51-58	843*/49-51-58		
-5	855	816*/48-51-58	838*/49-51-58	845*/49-51-58		
-10	856	817*/48-51-58	839*/49-51-58	846*/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 480 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.24 PERCENT FOR TODA AND -0.24 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 26 318 4565 0 174 3555 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3747 FT

RUNWAY 03

ZLIC

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

HEDONG
YC/NORTHWEST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	575	637F/31-32-35 604**44-46-49	673F/32-32-35 604**44-46-49	685F/32-32-35 604**44-46-49
58A	590	649F/33-33-37 619**45-47-50	686F/33-33-37 619**46-48-51	699F/33-33-37 619**46-48-51
55A	605	662F/34-35-38 633**46-48-51	700F/35-35-38 635**48-50-52	713F/35-35-38 635**48-50-52
52A	620	675F/36-37-40 647**46-49-52	714F/36-37-40 652**49-51-54	727F/37-37-40 652**49-51-54
49A	636	688F/37-38-42 662**47-50-53	727F/38-38-42 668**51-53-56	741F/38-38-42 668**51-53-56
46	651	702F/39-40-44 677**48-51-54	741F/39-40-44 685**52-55-58	755F/40-40-44 685**53-55-58
43	668	716F/40-42-45 693**49-51-55	757F/41-42-45 703**54-57-60	771F/41-42-45 703**54-57-60
40	686	731F/41-43-47 704**48-51-54	772F/42-43-47 721**56-59-62	786F/43-43-47 721**56-59-62
37	704	746F/43-45-49 716**47-50-53	788F/44-45-49 740**57-60-64	803F/44-45-49 740**57-60-64
34	723	743B/44-47-51 728**46-49-53	804F/45-47-51 755**56-59-63	819F/45-47-51 761**59-62-66
31	738	738B/45-48-52	817F/46-48-52 767**55-59-62	832F/47-48-52 774**59-62-66
28	751	743B/46-48-53	828F/47-49-53 776**55-58-62	844F/48-49-53 785**59-62-66
25	762	747B/46-49-53	836F/48-50-54 784**55-58-62	853F/48-50-54 790**57-60-64
22	769	751B/46-49-54	844F/49-51-55 790**55-58-62	861F/49-51-55 790**55-58-62
19	770	755B/46-49-54	848F/49-51-55 790**55-58-62	862F/49-51-55 790**55-58-62
16	770	759B/47-50-54	852F/49-51-55 790**55-58-62	862F/49-51-55 790**55-58-62
13	771	763B/47-50-55	856F/49-51-55 790**55-58-62	862F/49-51-55 790**55-58-62
10	771	767B/48-51-55	860F/49-51-55 790**55-58-62	862F/49-51-55 790**55-58-62
5	772	775B/48-51-55	862F/49-51-55 790**54-57-61	862F/49-51-55 790**55-57-61
0	773	787B/48-51-56 777**49-52-57	862F/49-51-56 790**54-57-61	862F/49-51-56 790**54-57-61
-5	774	800B/48-51-56 781**50-54-58	862F/49-51-56 790**54-57-61	862F/50-51-56 790**54-57-61
-10	774	814B/48-51-56 785**52-55-59	862F/49-51-56 790**54-57-61	862F/50-51-56 790**54-57-61

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.37 PERCENT FOR TODA AND -0.37 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3747 FT

RUNWAY 03/A9 ZLIC

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			HEDONG YC/NORTHWEST	DATED 10-JUN-2019
737-800		CFM56-7B26			WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
OAT	CLIMB	100KG	-10	0	10	
61A	575	602F/31-32-35	637F/32-32-35	649F/32-32-35		
		590**37-38-41	604**44-46-49	604**44-46-49		
58A	590	614F/33-33-37	650F/33-33-37	662F/33-33-37		
		603**37-39-42	619**45-47-50	619**46-48-51		
55A	605	626F/34-35-38	663F/35-35-38	675F/35-35-38		
		616**38-40-43	633**46-48-51	635**48-50-52		
52A	620	638F/36-37-40	676F/36-37-40	689F/37-37-40		
		630**39-41-44	647**47-49-52	652**49-51-54		
49A	636	650F/37-38-42	689F/38-38-42	702F/38-38-42		
		643**40-41-45	662**48-50-53	667**51-53-56		
46	651	662F/39-40-44	702F/39-40-44	715F/40-40-44		
		657**40-42-46	677**49-51-54	682**51-53-57		
43	668	675F/40-42-45	716F/41-42-45	730F/41-42-45		
		672**41-43-47	693**49-51-55	698**52-54-58		
40	686	689F/41-43-47	731F/42-43-47	745F/43-43-47		
		688**42-44-48	709**50-52-56	715**53-55-59		
37	704	703F/43-45-49	746F/44-45-49	760F/44-45-49		
			725**51-53-57	732**54-56-60		
34	723	718F/44-46-50	761F/45-47-51	776F/45-47-51		
			743**52-54-58	750**54-57-61		
31	738	730F/45-47-52	774F/46-48-52	789F/47-48-52		
			757**52-55-59	764**55-58-61		
28	751	741F/45-48-53	786F/47-49-53	801F/48-49-53		
			769**53-56-59	776**55-58-62		
25	762	747B/46-49-53	795F/48-50-54	811F/48-50-54		
			779**53-56-60	786**56-59-63		
22	769	751B/46-49-54	803F/49-51-55	819F/49-51-55		
			786**54-57-61	790**55-58-62		
19	770	755B/46-49-54	807F/49-51-55	823F/49-51-55		
			788**54-57-61	790**55-58-62		
16	770	759B/47-50-54	811F/49-51-55	827F/49-51-55		
			790**55-58-62	790**55-58-62		
13	771	763B/47-50-55	815F/49-51-55	831F/49-51-55		
			790**55-58-62	790**55-58-62		
10	771	767B/48-51-55	819F/49-51-55	835F/49-51-55		
			790**55-58-62	790**55-58-62		
5	772	775B/48-51-55	825F/49-51-55	841F/49-51-55		
			790**54-57-61	790**55-57-61		
0	773	782F/48-51-56	832F/49-51-56	848F/49-51-56		
		777**49-52-57	790**54-57-61	790**54-57-61		
-5	774	789F/48-51-56	839F/49-51-56	855F/50-51-56		
		781**50-54-58	790**54-57-61	790**54-57-61		
-10	774	795F/48-51-56	845F/49-51-56	862F/50-51-56		
		785**52-55-59	790**54-57-61	790**54-57-61		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.37 PERCENT FOR TODA AND -0.37 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/A9 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3747 FT

RUNWAY 21

ZLIC

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

HEDONG
YC/NORTHWEST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	575	625F/32-32-35 600**43-44-47	654F/32-32-35 604**45-46-49	664F/32-32-35 604**45-46-49
58A	590	638F/33-33-37 614**44-45-47	668F/33-33-37 619**47-48-51	678F/33-33-37 619**47-48-51
55A	605	650F/35-35-38 628**44-46-48	682F/35-35-38 635**49-50-52	693F/35-35-38 635**49-50-52
52A	620	663F/37-37-40 643**45-46-49	696F/37-37-40 652**50-51-54	707F/37-37-40 652**50-51-54
49A	636	676F/38-38-42 657**46-47-50	710F/38-38-42 668**52-53-56	721F/38-38-42 668**52-53-56
46	651	690F/40-40-44 671**47-48-51	725F/40-40-44 685**53-55-58	736F/40-40-44 685**54-55-58
43	668	704F/41-42-45 687**48-49-52	740F/42-42-45 703**55-57-60	752F/42-42-45 703**55-57-60
40	686	719F/43-43-47 703**48-50-53	756F/43-43-47 720**56-58-61	768F/43-43-47 721**57-59-62
37	704	733F/44-45-49 717**48-50-54	773F/45-45-49 737**57-59-62	785F/45-45-49 740**59-60-64
34	723	748B/45-47-51 730**47-49-53	790F/46-47-51 755**57-60-63	802F/46-47-51 760**60-62-66
31	738	742B/47-48-52 739**47-48-53	802F/47-48-52 768**57-59-63	817F/48-48-52 775**61-63-67
28	751	745B/47-49-53	813F/48-49-53 777**57-59-63	828F/49-49-53 786**60-62-66
25	762	750B/47-49-53	822F/49-50-54 785**56-59-63	837F/49-50-54 790**58-60-64
22	769	754B/47-49-54	830F/50-51-55 790**56-58-62	845F/50-51-55 790**56-58-62
19	770	758B/48-50-54	833F/50-51-55 790**56-58-62	849F/50-51-55 790**56-58-62
16	770	762B/48-50-55	837F/50-51-55 790**56-58-62	853F/50-51-55 790**56-58-62
13	771	765B/49-50-55	841F/50-51-55 790**56-58-62	856F/50-51-55 790**56-58-62
10	771	769B/49-51-55	844F/50-51-55 790**56-58-62	860F/50-51-55 790**56-58-62
5	772	779B/49-51-55 774**50-52-56	851F/50-51-55 790**55-57-61	862F/50-51-55 790**56-57-61
0	773	792B/49-51-56 778**51-53-57	857F/50-51-56 790**55-57-61	862F/50-51-56 790**56-57-61
-5	774	806B/50-51-56 782**52-54-58	862F/50-51-56 790**55-57-61	862F/51-51-56 790**55-57-61
-10	774	820B/50-51-56 787**53-55-59	862F/50-51-56 790**55-57-61	862F/51-51-56 790**55-57-61

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.37 PERCENT FOR TODA AND 0.37 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3747 FT

RUNWAY 21/A2 ZLIC

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			HEDONG YC/NORTHWEST	DATED 10-JUN-2019
737-800		CFM56-7B26			WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
OAT	CLIMB	100KG	-10	0	10	
61A	575	610F/32-32-35	639F/32-32-35	649F/32-32-35		
		593**39-40-43	604**45-46-49	604**45-46-49		
58A	590	622F/33-33-37	653F/33-33-37	663F/33-33-37		
		607**40-41-44	619**47-48-51	619**47-48-51		
55A	605	634F/35-35-38	667F/35-35-38	677F/35-35-38		
		620**41-42-45	635**49-50-52	635**49-50-52		
52A	620	646F/37-37-40	681F/37-37-40	691F/37-37-40		
		634**41-42-45	650**49-51-54	652**50-51-54		
49A	636	658F/38-38-42	694F/38-38-42	705F/38-38-42		
		647**42-43-46	665**50-51-54	668**52-53-56		
46	651	671F/40-40-44	709F/40-40-44	720F/40-40-44		
		662**43-44-47	680**51-52-55	685**54-55-58		
43	668	685F/41-42-45	724F/42-42-45	735F/42-42-45		
		677**44-45-48	696**52-53-56	701**55-56-59		
40	686	699F/43-43-47	739F/43-43-47	751F/43-43-47		
		693**45-46-49	713**53-54-57	718**55-57-60		
37	704	713F/44-45-49	754F/45-45-49	768F/45-45-49		
		709**46-47-51	730**53-55-58	735**56-58-61		
34	723	728F/45-47-51	770F/46-47-51	784F/46-47-51		
		726**46-48-52	747**54-56-59	753**57-58-62		
31	738	740F/47-48-52	783F/47-48-52	798F/48-48-52		
		739**47-48-53	761**55-57-60	768**57-59-63		
28	751	745B/47-49-53	795F/48-49-53	810F/49-49-53		
			773**55-57-61	780**58-60-64		
25	762	750B/47-49-53	805F/49-50-54	819F/49-50-54		
			783**56-58-62	790**58-60-64		
22	769	754B/47-49-54	812F/50-51-55	827F/50-51-55		
			790**56-58-62	790**56-58-62		
19	770	758B/48-50-54	816F/50-51-55	830F/50-51-55		
			790**56-58-62	790**56-58-62		
16	770	762B/48-50-55	819F/50-51-55	834F/50-51-55		
			790**56-58-62	790**56-58-62		
13	771	765B/49-50-55	823F/50-51-55	838F/50-51-55		
			790**56-58-62	790**56-58-62		
10	771	769B/49-51-55	826F/50-51-55	841F/50-51-55		
			790**56-58-62	790**56-58-62		
5	772	779B/49-51-55	832F/50-51-55	848F/50-51-55		
		774**50-52-56	790**55-57-61	790**56-57-61		
0	773	792F/49-51-56	838F/50-51-56	854F/50-51-56		
		778**51-53-57	790**55-57-61	790**56-57-61		
-5	774	798F/50-51-56	845F/50-51-56	860F/51-51-56		
		782**52-54-58	790**55-57-61	790**55-57-61		
-10	774	805F/50-51-56	851F/50-51-56	862F/51-51-56		
		787**53-55-59	790**55-57-61	790**55-57-61		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.37 PERCENT FOR TODA AND 0.37 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21/A2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 18

ZLLL

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	ZHONGCHUANG LZ/NORTHWEST
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61			
58A 533	546*/27-27-30 557**38-40-43	559*/27-27-30 560**39-41-43	563*/27-27-30 560**39-41-43
55A 547	559*/28-29-32 570**39-42-44	573*/29-29-32 574**41-43-45	577*/29-29-32 574**41-43-45
52A 561	573*/29-30-33 584**41-44-46	587*/30-30-33 589**42-44-47	591*/30-30-33 589**43-44-47
49A 575	586*/31-32-35 597**42-45-48	600*/32-32-35 604**44-46-49	605*/32-32-35 604**44-46-49
46A 589	599*/32-33-36 610**44-47-49	614*/33-33-36 619**46-48-51	619*/33-33-36 619**46-48-51
43A 602	613*/34-35-38 623**45-48-51	627*/34-35-38 633**47-49-52	632*/35-35-38 633**47-49-52
40 618	627*/35-37-40 637**46-50-53	642*/36-37-40 649**49-51-54	647*/36-37-40 649**49-51-54
37 634	643*/37-38-42 652**48-51-54	658*/37-38-42 667**50-53-56	663*/38-38-42 667**51-53-56
34 651	659*/38-40-44 668**46-49-53	675*/39-40-44 685**52-55-58	681*/39-40-44 685**52-55-58
31 666	673*/40-42-45 681**45-48-52	690*/40-42-45 701**54-57-60	696*/41-42-45 701**54-57-60
28 681	687*/41-43-47 692**44-47-51	704*/42-43-47 715**54-57-61	710*/42-43-47 717**55-58-62
25 690	696*/42-44-48 699**44-47-50	713*/42-44-48 723**54-57-61	719*/43-44-48 727**56-59-63
22 697	703*/42-44-48 704**44-47-51	721*/43-44-48 729**54-57-61	727*/43-44-48 735**57-60-63
19 704	710*/43-45-49 710**44-47-51	728*/44-45-49 736**54-57-61	734*/44-45-49 743**57-61-64
16 708	715*/43-45-49 714**45-47-51	733*/44-45-49 740**54-58-61	739*/44-45-49 747**58-61-65
13 709	716*/43-45-49 716**45-48-52	734*/44-45-49 742**55-58-62	740*/44-45-49 748**58-61-65
10 709	717*/43-45-49 718**46-49-52	735*/44-45-49 744**56-59-63	741*/44-45-49 748**58-61-65
5 710	719*/43-46-50 721**47-50-53	737*/44-46-50 747**57-61-64	743*/44-46-50 749**58-61-65
0 710	721*/43-46-50 725**48-51-55	739*/44-46-50 749**58-61-65	745*/45-46-50 749**58-61-65
-5 711	723*/44-46-50 729**49-52-56	741*/44-46-50 750**58-62-65	747*/45-46-50 750**58-62-65
-10 711	724*/44-46-50 732**50-53-57	742*/44-46-50 751**58-62-65	748*/45-46-50 751**58-62-65

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.51 PERCENT FOR TODA AND -0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18 112 1844 0 115 1841 0 125 2019 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 18/A2 ZLLL

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

ZHONGCHUANG

LZ/NORTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10
 61

58A	533	542*/27-27-30 551**37-40-42	555*/27-27-30 560**39-41-43	560*/27-27-30 560**39-41-43
55A	547	555*/28-29-32 564**39-41-44	569*/29-29-32 574**41-43-45	573*/29-29-32 574**41-43-45
52A	561	568*/29-30-33 577**40-43-45	583*/30-30-33 589**42-44-47	587*/30-30-33 589**43-44-47
49A	575	581*/31-32-35 590**41-44-47	596*/32-32-35 604**44-46-49	601*/32-32-35 604**44-46-49
46A	589	594*/32-33-36 603**43-46-48	610*/33-33-36 619**46-48-51	614*/33-33-36 619**46-48-51
43A	602	607*/34-35-38 616**44-47-50	623*/34-35-38 633**47-49-52	628*/35-35-38 633**47-49-52
40	618	622*/35-37-40 630**45-48-51	638*/36-37-40 649**49-51-54	643*/36-37-40 649**49-51-54
37	634	637*/37-38-42 645**46-49-52	654*/37-38-42 667**50-53-56	659*/38-38-42 667**51-53-56
34	651	653*/38-40-44 661**46-50-53	671*/39-40-44 683**52-55-58	676*/39-40-44 685**52-55-58
31	666	667*/40-42-45 675**46-49-53	686*/40-42-45 698**53-56-60	691*/41-42-45 701**54-57-60
28	681	680*/41-43-47 686**45-48-52	699*/42-43-47 712**54-58-61	705*/42-43-47 717**55-58-62
25	690	689*/41-44-48 694**45-48-51	708*/42-44-48 721**54-58-61	714*/43-44-48 727**56-59-63
22	697	696*/42-44-48 701**45-47-51	716*/43-44-48 729**54-57-61	722*/43-44-48 735**57-60-63
19	704	704*/43-45-49 707**45-47-51	723*/44-45-49 736**54-57-61	729*/44-45-49 743**57-61-64
16	708	708*/43-45-49 711**45-48-52	728*/44-45-49 740**54-58-61	734*/44-45-49 747**58-61-65
13	709	709*/43-45-49 713**46-48-52	729*/44-45-49 742**55-58-62	735*/44-45-49 748**58-61-65
10	709	710*/43-45-49 715**46-49-53	730*/44-45-49 744**56-59-63	736*/44-45-49 748**58-61-65
5	710	712*/43-46-50 719**47-50-54	732*/44-46-50 747**57-61-64	738*/44-46-50 749**58-61-65
0	710	715*/43-46-50 722**48-51-55	734*/44-46-50 749**58-61-65	740*/45-46-50 749**58-61-65
-5	711	717*/44-46-50 726**49-53-56	736*/44-46-50 750**58-62-65	741*/45-46-50 750**58-62-65
-10	711	718*/44-46-50 729**50-54-58	737*/44-46-50 751**58-62-65	743*/45-46-50 751**58-62-65

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.51 PERCENT FOR TODA AND -0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18/A2 112 1844 0 115 1841 0 125 2019 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36

ZLLL

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				ZHONGCHUANG LZ/NORTHWEST			
737-800	CFM56-7B26			DATED 10-JUN-2019			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)					
C	100KG	-10	0	10			
61							
58A	533	518*/25-25-28 538**36-38-40	529*/27-27-29 551**39-40-42	533*/27-27-30 555**40-40-43			
55A	547	531*/27-27-30 552**38-39-42	543*/28-28-31 565**40-41-44	547*/29-29-31 569**41-42-44			
52A	561	545*/28-28-31 566**39-41-44	556*/30-30-33 579**42-43-46	560*/30-30-33 584**43-44-46			
49A	575	558*/30-30-33 580**41-43-46	570*/31-31-34 593**43-45-47	574*/32-32-35 598**44-45-48			
46A	589	571*/31-31-35 593**42-44-47	583*/33-33-36 607**45-46-49	587*/33-33-36 612**46-47-50			
43A	602	584*/32-33-36 607**44-46-49	597*/34-34-38 621**46-48-51	601*/35-35-38 626**47-48-51			
40	618	599*/34-34-38 622**45-48-51	611*/36-36-39 637**48-49-53	616*/36-36-40 641**49-50-53			
37	634	614*/35-36-40 638**47-49-53	627*/37-37-41 653**50-51-55	632*/38-38-41 658**51-52-55			
34	651	631*/37-38-42 655**49-51-55	644*/39-39-43 670**51-53-56	648*/40-40-43 675**52-54-57			
31	666	645*/38-39-43 668**49-51-55	658*/41-41-44 686**53-55-58	663*/41-41-45 691**54-55-59			
28	681	658*/39-40-45 679**48-50-54	672*/42-42-46 700**54-56-60	677*/42-42-46 706**55-57-60			
25	690	667*/40-41-46 686**48-50-54	681*/43-43-47 710**55-57-61	686*/43-43-47 715**56-58-61			
22	697	674*/41-42-46 692**48-50-54	688*/43-43-48 717**56-58-62	693*/44-44-48 723**57-59-62			
19	704	680*/41-42-47 697**48-50-54	695*/44-44-48 725**56-59-62	700*/45-45-49 731**57-59-63			
16	708	684*/42-43-47 701**48-50-54	699*/44-44-49 729**57-59-63	704*/45-45-49 735**58-60-63			
13	709	685*/42-43-47 703**49-51-55	699*/44-44-49 730**57-59-63	704*/45-45-49 736**58-60-63			
10	709	685*/42-43-47 705**49-52-56	700*/44-45-49 731**57-59-63	705*/45-45-49 736**58-60-64			
5	710	686*/42-43-47 708**51-53-57	701*/45-45-49 732**57-59-63	706*/45-45-49 738**58-60-64			
0	710	687*/42-43-48 711**52-54-58	702*/45-45-49 733**57-59-63	707*/45-45-49 739**58-60-64			
-5	711	687*/42-43-48 714**53-56-60	702*/45-45-49 734**57-60-63	707*/45-45-49 740**58-60-64			
-10	711	688*/42-43-48 717**54-57-61	703*/45-45-49 735**58-60-63	708*/45-45-49 741**59-60-64			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 810 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY			RUNWAY SLOPES ARE 0.51 PERCENT FOR TODA AND 0.51 PERCENT FOR ASDA			LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
	HT	DIST	OFFSET	HT	DIST	OFFSET	
36	463	11278	0	325	7764	0	59 924 0
	16	290	0	62	981	0	410 9190 0
	430	7280	0				

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36/A7 ZLLL

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

ZHONGCHUANG

LZ/NORTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10
 61

58A	533	514*/25-25-28	526*/26-26-29	530*/27-27-29
		530**33-34-37	547**38-39-41	551**39-40-42
55A	547	527*/26-26-29	539*/28-28-31	543*/28-28-31
		542**34-35-38	560**40-41-43	565**40-41-44
52A	561	541*/28-28-31	553*/29-29-32	557*/30-30-33
		555**34-35-38	575**41-42-45	579**42-43-46
49A	575	554*/29-29-33	566*/31-31-34	570*/31-31-34
		567**36-37-40	587**42-43-46	593**44-45-47
46A	589	567*/30-31-34	579*/32-32-36	584*/33-33-36
		579**37-38-41	600**43-44-47	607**45-46-49
43A	602	580*/32-32-36	593*/34-34-37	597*/34-34-38
		591**38-39-43	613**44-45-48	620**46-47-50
40	618	594*/33-34-37	607*/35-35-39	612*/36-36-39
		604**37-39-42	627**44-45-49	634**47-48-51
37	634	609*/35-35-39	623*/37-37-41	628*/37-37-41
		618**40-41-45	642**45-46-50	649**48-49-52
34	651	626*/36-37-41	639*/39-39-42	644*/39-39-43
		633**41-43-47	657**46-47-51	665**49-50-53
31	666	640*/37-38-43	654*/40-40-44	659*/41-41-44
		646**42-44-48	671**47-49-52	679**49-50-54
28	681	653*/39-40-44	667*/41-41-45	672*/42-42-46
		658**43-45-49	684**48-50-54	693**50-51-55
25	690	661*/39-41-45	676*/42-42-46	681*/43-43-47
		666**43-45-50	693**49-51-54	702**51-52-56
22	697	668*/40-41-46	683*/43-43-47	688*/43-43-48
		673**44-46-50	700**49-50-54	709**51-53-57
19	704	675*/41-42-46	690*/43-44-48	695*/44-44-48
		680**45-47-51	707**50-51-55	717**52-54-58
16	708	679*/41-42-47	694*/44-44-48	699*/44-44-49
		685**45-47-52	712**51-53-57	721**53-54-58
13	709	679*/41-42-47	695*/44-44-48	700*/44-44-49
		687**46-48-52	714**52-53-57	723**53-55-59
10	709	680*/41-42-47	695*/44-44-48	700*/45-45-49
		688**47-49-53	716**52-54-57	725**54-55-59
5	710	680*/41-42-47	696*/44-44-48	701*/45-45-49
		691**48-50-54	719**52-54-58	727**55-57-60
0	710	681*/41-42-47	697*/44-44-48	702*/45-45-49
		694**48-51-55	722**54-55-59	730**56-58-62
-5	711	682*/42-42-47	698*/44-44-49	703*/45-45-49
		697**48-50-55	724**55-57-60	733**57-59-63
-10	711	683*/42-43-47	698*/44-44-49	704*/45-45-49
		700**48-50-55	727**56-58-62	735**58-60-63

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF

75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 790 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3360 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE 0.51 PERCENT FOR TODA AND 0.51 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

36/A7	463	11278	0	325	7764	0	59	924	0
	16	290	0	62	981	0	410	9190	0
	430	7280	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36/A8 ZLLL

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				ZHONGCHUANG LZ/NORTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
C	100KG	-10	0	10
61				
58A	533	515*/25-25-28 536**36-37-40	527*/26-26-29 548**38-39-42	531*/27-27-30 553**39-40-42
55A	547	529*/26-26-30 549**37-39-42	540*/28-28-31 562**40-41-43	544*/28-28-31 567**41-41-44
52A	561	542*/28-28-31 563**39-40-43	554*/29-29-33 576**41-42-45	558*/30-30-33 581**42-43-46
49A	575	555*/29-29-33 575**39-41-44	568*/31-31-34 590**43-44-47	572*/32-32-35 595**44-45-48
46A	589	568*/31-31-34 588**40-42-45	581*/32-32-36 604**44-46-49	585*/33-33-36 609**45-46-49
43A	602	581*/32-32-36 600**41-43-46	594*/34-34-37 618**46-47-50	599*/34-34-38 623**47-48-51
40	618	596*/33-34-38 614**42-43-47	609*/35-35-39 633**48-49-52	613*/36-36-39 638**49-50-53
37	634	611*/35-35-39 628**43-44-48	625*/37-37-41 650**49-51-54	629*/38-38-41 655**50-52-55
34	651	628*/36-37-41 644**44-45-49	641*/39-39-43 666**51-52-56	646*/39-39-43 672**52-53-57
31	666	642*/38-39-43 657**45-47-51	656*/40-40-44 680**51-53-57	660*/41-41-45 687**53-55-58
28	681	655*/39-40-44 669**46-48-52	669*/41-42-46 694**52-54-57	674*/42-42-46 702**54-56-60
25	690	664*/40-41-45 678**46-48-52	678*/42-42-47 703**53-54-58	683*/43-43-47 711**55-57-60
22	697	670*/40-41-46 685**47-49-53	685*/43-43-47 710**53-55-59	690*/44-44-48 718**56-58-61
19	704	677*/41-42-47 692**47-49-53	692*/43-44-48 718**54-56-60	697*/44-44-48 726**56-58-62
16	708	681*/41-42-47 697**49-51-55	696*/44-44-48 723**55-57-60	701*/45-45-49 731**57-59-63
13	709	681*/41-42-47 699**48-50-54	696*/44-44-48 724**55-57-61	701*/45-45-49 732**57-59-63
10	709	682*/41-42-47 700**49-51-56	697*/44-44-48 726**56-58-62	702*/45-45-49 733**57-59-63
5	710	683*/42-43-47 703**50-52-56	698*/44-44-49 728**57-59-63	703*/45-45-49 734**58-60-63
0	710	683*/42-43-47 706**51-53-57	699*/44-44-49 729**57-59-63	704*/45-45-49 735**58-60-63
-5	711	684*/42-43-47 708**52-54-58	699*/44-44-49 730**57-59-63	705*/45-45-49 736**58-60-63
-10	711	685*/42-43-47 711**53-55-59	700*/44-44-49 731**57-59-63	705*/45-45-49 737**58-60-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 800 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	IS	3600 M LONG WITH	0 M OF CLEARWAY AND	0 M	OF STOPWAY
		RUNWAY SLOPES ARE 0.51 PERCENT FOR TODA AND	0.51 PERCENT FOR ASDA		
		LINE-UP DISTANCES: 19 M FOR TODA,	35 M FOR ASDA	OBS	FROM LO-FT/M
		HIT DIST OFFSET	HT DIST OFFSET	HT DIST	OFFSET
36/A8	463	11278 0	325 7764	0 59	924 0
	16	290 0	62 981	0 410	9190 0
	430	7280 0			

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 18

ZLLL

*** FLAPS 01 ***	AIR COND AUTO	ANTI-ICE OFF	ZHONGCHUANG LZ/NORTHWEST
737-800	CFM56-7B26		DATED 07-JUN-2019
OAT CLIMB C 100KG 61	WIND COMPONENT IN KNOTS (-10 0 10)	(MINUS DENOTES TAILWIND)	
58A 553	556*/35-36-37	572*/36-36-37	576*/36-36-37
	561**41-43-45	579**48-50-52	582**50-52-53
55A 567	569*/37-37-39	586*/37-37-39	590*/37-37-39
	574**43-44-46	593**49-51-53	597**52-54-55
52A 582	583*/38-39-41	600*/39-39-41	604*/39-39-41
	587**44-46-48	607**50-52-54	613**54-56-57
49A 596	596*/40-40-43	613*/40-41-43	618*/41-41-43
	600**45-47-49	620**51-52-54	627**55-56-58
46A 611	609*/41-42-44	627*/42-42-44	632*/42-42-44
	613**47-49-51	634**52-53-55	640**56-57-59
43A 625	622*/42-43-46	641*/43-44-46	646*/44-44-46
	626**48-50-53	647**53-54-56	654**56-58-60
40 641	636*/44-45-47	656*/45-45-48	661*/45-45-48
	640**49-51-54	662**53-55-57	669**57-59-61
37 658	652*/45-47-49	672*/47-47-50	678*/47-47-50
	654**48-50-52	678**54-56-58	685**58-60-62
34 676	668B/46-48-51	689*/48-49-52	695*/48-49-52
	695**56-58-60	702**59-61-63	
31 692	672B/46-48-52	704*/49-51-53	710*/50-51-53
	706**55-57-59	714**58-60-63	
28 707	676B/47-49-52	718*/51-52-55	724*/51-52-55
	717**54-56-59	725**58-60-62	
25 716	680B/47-49-53	727*/52-53-56	734*/52-53-56
	724**54-56-59	732**57-60-62	
22 724	684B/47-49-53	735*/52-54-57	741*/52-54-57
	730**54-56-59	739**58-60-62	
19 732	688B/47-50-54	743*/53-55-58	749*/53-55-58
	736**54-56-59	745**58-60-63	
16 736	692B/47-50-54	747*/53-55-58	754*/53-55-58
	741**55-57-60	749**58-60-63	
13 736	695B/48-50-54	749*/53-55-58	755*/53-55-58
	743**55-57-60	752**59-61-64	
10 737	699B/48-51-55	750*/53-55-58	756*/54-55-58
	745**56-58-61	754**59-62-64	
5 738	705B/49-51-55	752*/53-55-58	759*/54-55-58
	749**57-59-62	757**61-63-66	
0 738	711B/50-52-56	754*/54-55-58	761*/54-55-58
	752**58-61-63	761**62-64-67	
-5 739	718B/50-53-56	757*/54-55-58	763*/54-55-58
	756**59-62-65	765**63-66-68	
-10 739	724B/51-54-57	759*/54-55-58	765*/54-55-58
	760**61-63-66	769**64-67-70	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.51 PERCENT FOR TODA AND -0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18 112 1844 0 115 1841 0 125 2019 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 18/A2 ZLLL

ZHONGCHUANG
LZ/NORTHWEST

DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10
 61

58A	553	550*/35-35-37 554**40-42-44	567*/36-36-37 573**45-46-48	572*/36-36-37 580**49-50-52
55A	567	563*/36-37-39 567**41-43-45	581*/37-37-39 587**46-47-49	586*/37-37-39 593**50-51-53
52A	582	577*/37-38-40 580**43-45-47	595*/39-39-41 601**47-48-50	600*/39-39-41 607**50-52-54
49A	596	590*/39-40-42 593**44-46-48	609*/40-41-43 614**49-50-52	614*/41-41-43 621**51-53-55
46A	611	602*/40-41-44 606**46-48-50	622*/42-42-44 627**49-51-53	628*/42-42-44 634**52-53-56
43A	625	615*/41-42-45 618**47-49-51	635*/43-44-46 641**51-52-55	641*/44-44-46 648**53-54-56
40	641	630*/43-44-47 632**47-49-52	650*/45-45-48 655**52-54-56	656*/45-45-48 663**54-55-57
37	658	645*/44-46-49 647**49-51-54	666*/47-47-50 671**54-55-58	673*/47-47-50 678**55-57-59
34	676	661*/46-47-50 662**47-49-52	683*/48-49-52 687**55-57-60	690*/48-49-52 695**56-58-61
31	692	672B/46-48-52	697*/49-51-53 701**55-58-60	705*/50-51-53 710**57-59-62
28	707	676B/47-49-52	711*/51-52-55 714**55-57-59	719*/51-52-55 723**58-60-63
25	716	680B/47-49-53	721*/52-53-56 723**54-56-59	728*/52-53-56 732**57-60-62
22	724	684B/47-49-53	728*/52-54-57 730**54-56-59	736*/52-54-57 739**58-60-62
19	732	688B/47-50-54	736*/53-55-58 736**54-56-59	743*/53-55-58 745**58-60-63
16	736	692B/47-50-54	741*/53-55-58 741**55-57-60	748*/53-55-58 749**58-60-63
13	736	695B/48-50-54	742*/53-55-58 743**55-57-60	749*/53-55-58 752**59-61-64
10	737	699B/48-51-55	744*/53-55-58 745**56-58-61	751*/54-55-58 754**59-62-64
5	738	705B/49-51-55	746*/53-55-58 749**57-59-62	753*/54-55-58 757**61-63-66
0	738	711B/50-52-56	748*/54-55-58 752**58-61-63	755*/54-55-58 761**62-64-67
-5	739	718B/50-53-56	751*/54-55-58 756**59-62-65	757*/54-55-58 765**63-66-68
-10	739	724B/51-54-57	753*/54-55-58 760**61-63-66	760*/54-55-58 769**64-67-70

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.51 PERCENT FOR TODA AND -0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18/A2 112 1844 0 115 1841 0 125 2019 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36

ZLLL

*** FLAPS 01 *** AIR COND AUTO ANTI-ICE OFF

ZHONGCHUANG
LZ/NORTHWEST

737-800 CFM56-7B26

DATED 07-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61						
58A	553	534*/33-33-35 551**44-45-47	546*/35-35-37 568**49-49-51	550*/35-35-37 572**50-50-52		
55A	567	547*/34-34-37 564**45-46-48	560*/36-36-38 582**51-51-53	564*/37-37-39 587**52-52-54		
52A	582	561*/36-36-39 578**46-47-49	574*/38-38-40 597**52-53-55	578*/38-38-41 602**53-54-56		
49A	596	575*/38-38-40 591**46-47-50	588*/39-39-42 610**53-54-56	592*/40-40-42 616**55-56-58		
46A	611	588*/39-39-42 603**47-48-51	602*/41-41-43 623**54-55-57	606*/42-42-44 630**56-57-59		
43A	625	602*/41-41-44 616**48-49-52	615*/42-42-45 637**55-56-58	620*/43-43-46 643**57-58-60		
40	641	617*/42-42-45 630**49-50-53	631*/44-44-47 651**56-57-59	635*/45-45-47 658**58-59-61		
37	658	633*/44-44-47 645**50-51-54	647*/46-46-49 667**57-58-60	652*/47-47-49 674**59-60-62		
34	676	650*/45-46-49 658**50-51-54	664*/48-48-51 684**58-59-61	669*/48-48-51 691**60-61-64		
31	692	664*/47-47-51 669**49-50-53	679*/49-49-52 698**58-59-62	684*/50-50-53 706**61-62-65		
28	707	678*/48-49-52	694*/51-51-54 709**57-58-61	699*/51-51-54 719**60-61-64		
25	716	684B/48-49-53	703*/51-52-55 716**57-58-61	708*/52-52-55 726**60-61-64		
22	724	687B/49-50-53	710*/52-52-56 722**57-58-61	715*/53-53-56 733**60-61-64		
19	732	691B/49-50-54	718*/53-53-56 729**57-58-61	723*/53-54-57 739**60-61-64		
16	736	695B/49-50-54	722*/53-53-57 733**58-59-62	727*/54-54-57 744**61-62-65		
13	736	699B/50-51-55	722*/53-53-57 735**58-59-62	728*/54-54-57 746**61-62-65		
10	737	702B/50-51-55	723*/53-53-57 737**59-60-63	728*/54-54-57 748**62-63-66		
5	738	708*/51-52-55	724*/53-54-57 740**60-61-64	729*/54-54-57 751**63-65-68		
0	738	709*/51-52-56 711**52-53-57	725*/53-54-57 744**61-63-66	730*/54-54-57 754**65-66-69		
-5	739	710*/51-52-56 715**53-54-58	726*/54-54-57 747**63-64-67	731*/54-54-58 757**66-68-70		
-10	739	710*/51-52-56 718**54-56-59	727*/54-54-57 750**64-66-69	732*/54-54-58 760**68-69-72		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 800 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY			RUNWAY SLOPES ARE 0.51 PERCENT FOR TODA AND 0.51 PERCENT FOR ASDA		
	LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M			RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET		
36	463	11278	0	325	7764	0
	16	290	0	62	981	0
	430	7280	0			410
						9190
						0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36/A7 ZLLL

*** FLAPS 01 ***	AIR COND AUTO	ANTI-ICE OFF	ZHONGCHUANG LZ/NORTHWEST
737-800	CFM56-7B26		DATED 07-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61			
58A 553	529*/32-32-35	542*/34-34-36	546*/35-35-37
	531**33-33-35	551**40-40-42	558**42-42-44
55A 567	543*/34-34-36	556*/36-36-38	560*/36-36-38
	564**40-40-43	571**43-43-45	
52A 582	555*/35-35-38	570*/37-37-40	574*/38-38-40
	577**41-41-43	584**43-43-46	
49A 596	567*/37-37-39	583*/39-39-41	588*/39-39-42
	589**42-42-44	597**44-44-47	
46A 611	579*/38-38-41	597*/40-40-43	602*/41-41-43
	602**43-43-45	609**45-45-47	
43A 625	591*/39-39-42	611*/42-42-45	615*/42-42-45
	614**44-44-46	622**46-46-49	
40 641	603F/40-41-44	626*/44-44-46	630*/44-44-47
	628**45-45-47	636**47-47-49	
37 658	615F/41-42-45	642*/45-45-48	647*/46-46-49
			650**48-48-51
34 676	628F/42-43-47	658*/47-47-50	664*/48-48-51
			666**49-49-52
31 692	639F/43-44-48	671*/48-48-52	679*/49-49-52
			680**52-52-55
28 707	649F/44-45-50	684*/49-50-53	693*/51-51-54
25 716	657F/45-46-50	693*/50-50-54	702*/51-51-55
22 724	664F/46-47-51	700*/51-51-55	709*/52-52-55
19 732	671F/46-47-52	708*/51-52-55	717*/53-53-56
16 736	676F/47-48-52	712*/52-52-56	721*/53-53-57
13 736	679F/47-48-53	714*/52-52-56	722*/53-53-57
			724**55-55-59
10 737	682F/48-49-53	716*/52-53-56	723*/53-53-57
5 738	687F/48-49-54	718*/53-53-56	724*/53-54-57
	719**54-55-58	729**55-56-59	
0 738	693F/49-50-54	719*/53-53-56	725*/54-54-57
-5 739	697*/50-50-54	722**54-54-58	732**57-57-60
	720*/53-53-57	726*/54-54-57	
-10 739	700*/50-51-55	726**55-56-59	735**58-58-61
	721*/53-53-57	727*/54-54-57	
	729**56-57-60	739**59-59-63	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 780 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
36/A7	463	11278	0	325	7764	0	59	924	0
	16	290	0	62	981	0	410	9190	0
	430	7280	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36/A8 ZLLL

*** FLAPS 01 *** AIR COND AUTO ANTI-ICE OFF

ZHONGCHUANG
LZ/NORTHWEST

737-800 CFM56-7B26

DATED 07-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61								
58A	553	531*/32-32-35 539**37-38-40	543*/34-34-36 559**44-44-46	548*/35-35-37 565**46-46-48				
55A	567	545*/34-34-37 552**38-38-41	557*/36-36-38 572**45-45-47	561*/36-36-38 579**47-47-49				
52A	582	558*/36-36-38 564**39-39-42	571*/37-37-40 586**46-46-48	576*/38-38-40 592**48-48-50				
49A	596	572*/37-37-40 577**40-40-43	585*/39-39-41 598**47-47-49	590*/40-40-42 605**49-49-51				
46A	611	585*/39-39-42 589**40-41-44	599*/41-41-43 611**47-47-50	603*/41-41-44 619**50-50-52				
43A	625	599*/40-40-43 601**41-42-45	612*/42-42-45 624**48-48-51	617*/43-43-45 631**51-51-53				
40	641	613*/42-42-45 615**43-43-46	628*/44-44-47 638**49-49-52	632*/44-44-47 645**51-51-54				
37	658	629*/43-44-47	644*/46-46-48 653**50-50-53	649*/46-46-49 661**52-52-55				
34	676	644*/45-45-49	661*/47-47-50 668**51-51-54	666*/48-48-51 677**53-53-56				
31	692	657*/46-47-50	676*/49-49-52 682**52-52-55	681*/49-49-52 691**54-54-57				
28	707	670*/47-48-52	690*/50-50-53 696**52-53-56	695*/51-51-54 704**55-55-58				
25	716	678*/48-49-52	699*/51-51-54 705**53-54-57	705*/52-52-55 713**55-56-59				
22	724	685*/48-49-53	707*/52-52-55 712**54-54-58	712*/52-52-56 721**56-57-60				
19	732	691B/49-50-54	714*/52-53-56 720**54-55-58	720*/53-53-56 729**57-57-61				
16	736	695B/49-50-54	718*/53-53-56 724**55-56-59	724*/53-54-57 733**57-58-61				
13	736	699B/50-51-55	719*/53-53-56 726**56-56-60	724*/53-54-57 735**58-59-62				
10	737	701*/50-51-55	719*/53-53-56 728**56-57-60	725*/54-54-57 737**59-60-63				
5	738	703*/50-51-55	720*/53-53-57 731**57-58-61	726*/54-54-57 740**60-61-64				
0	738	705*/50-51-55 707**52-53-57	721*/53-53-57 734**59-60-63	727*/54-54-57 744**61-62-65				
-5	739	706*/51-51-55 710**52-53-57	722*/53-53-57 738**60-61-64	728*/54-54-57 747**62-63-66				
-10	739	707*/51-52-55 713**53-55-58	723*/53-53-57 741**61-62-65	729*/54-54-57 750**63-64-67				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 790 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY			RUNWAY SLOPES ARE 0.51 PERCENT FOR TODA AND 0.51 PERCENT FOR ASDA			LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M		
	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
36/A8	463	11278	0	325	7764	0	59	924	0
	16	290	0	62	981	0	410	9190	0
	430	7280	0						

Intentionally blank

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 4636 FT

RUNWAY 14

ZLQY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF XIFENG
 737-800 CFM56-7B26 QY/NORTHWEST
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	558	548*/28-29-32	571*/30-30-33	578*/30-30-33
			571**35-36-38	577**38-39-41
58A	573	560F/29-30-33	584*/31-32-35	591*/32-32-35
			584**35-36-39	590**38-39-42
55A	587	570F/30-31-35	597*/33-33-36	605*/33-33-36
			597**36-37-40	603**39-40-43
52A	603	581F/31-32-36	610*/34-35-38	618*/35-35-38
			610**37-38-41	617**40-41-44
49A	617	592F/32-33-37	623*/36-36-40	631*/36-36-40
			623**38-39-42	630**41-42-45
46A	632	602F/33-34-38	636*/37-38-41	644*/37-38-41
			636**38-39-43	643**41-42-46
43	648	614F/34-35-40	649*/39-40-43	659*/39-40-43
			649**39-40-44	657**42-43-47
40	665	626F/35-37-41	664*/40-41-45	674*/41-41-45
				673**43-44-48
37	682	639F/36-38-43	679F/41-43-46	689*/42-43-47
				688**44-45-49
34	700	651F/37-39-44	692F/42-44-48	705*/44-45-49
				703**44-46-50
31	716	662F/37-40-45	704F/43-45-49	719F/45-46-50
				717**45-47-51
28	727	671F/38-41-46	713F/44-46-50	728F/46-47-51
25	737	678F/39-42-47	722F/44-46-51	737F/46-48-52
22	745	685F/39-42-48	730F/45-47-52	745F/47-49-53
19	749	690F/40-43-48	735F/45-48-52	750F/47-49-53
16	749	693F/40-43-49	738F/46-48-52	753*/47-49-53
				752**48-50-54
13	750	697F/41-43-49	742F/46-48-53	755*/47-49-53
				754**49-50-55
10	750	700F/41-44-49	745F/47-49-53	758*/47-49-53
				756**49-51-55
5	751	706F/42-44-50	751*/47-49-53	761*/48-49-53
				760**50-52-56
0	752	712F/42-45-50	754*/47-49-54	765*/48-49-54
			754**48-50-54	764**51-53-57
-5	753	718F/43-46-51	758*/48-49-54	768*/48-49-54
			758**49-51-55	768**52-55-59
-10	753	723F/44-46-51	762*/48-49-54	771*/48-49-54
			762**50-52-57	771**53-56-60

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.52 PERCENT FOR TODA AND -0.52 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 14 43 809 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 4636 FT

RUNWAY 32

ZLQY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIFENG

QY/NORTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	558	537F/27-27-31	571F/30-30-33	582F/30-30-33
			565**33-33-36	571**36-36-38
58A	573	548F/28-28-32	582F/32-32-35	593F/32-32-35
			578**34-34-36	584**36-36-39
55A	587	558F/29-29-33	593F/33-33-36	605F/33-33-36
			590**34-34-37	597**37-37-40
52A	603	569F/30-31-35	604F/35-35-38	616F/35-35-38
				610**38-38-41
49A	617	579F/31-32-36	615F/36-36-39	627F/36-36-40
				623**39-39-42
46A	632	590F/32-33-37	626F/37-37-41	638F/38-38-41
				635**39-39-43
43	648	601F/33-34-38	638F/38-38-42	651F/40-40-43
				649**40-40-44
40	665	613F/34-35-40	650F/40-40-44	664F/41-41-45
37	682	626F/35-36-41	664F/41-41-45	677F/42-42-46
34	700	637F/36-37-43	676F/42-42-46	690F/44-44-48
31	716	648F/37-38-44	688F/43-43-48	703F/45-45-49
28	727	657F/38-39-45	698F/43-44-49	712F/45-45-50
25	737	665F/38-40-46	706F/44-45-49	720F/46-46-51
22	745	671F/39-41-47	714F/45-45-50	728F/46-47-51
19	749	676F/39-41-47	718F/45-46-51	733F/47-47-52
16	749	679F/40-41-47	722F/45-46-51	737F/47-48-52
13	750	682F/40-42-48	725F/46-46-51	740F/48-48-53
10	750	686F/41-42-48	729F/46-47-52	744F/48-48-53
5	751	691F/41-43-48	735F/47-47-52	750F/49-49-53
0	752	696F/42-43-49	741F/48-48-53	756F/49-49-54
-5	753	702F/43-44-49	747F/48-49-53	762F/49-49-54
-10	753	707F/43-44-50	753F/49-49-54	769F/49-49-54
				762**52-52-56

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.52 PERCENT FOR TODA AND 0.52 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
32 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 05L ZLXY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIANGYANG
XA/NORTHWEST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	618	623F/36-36-40 621**37-38-41	661F/36-36-40 641**45-46-49	674F/36-36-40 646**48-49-52
58A	634	635F/38-38-41	674F/38-38-41 655**46-47-50	687F/38-38-41 660**49-50-53
55A	650	647F/39-39-43	687F/40-40-43 669**47-48-51	701F/40-40-43 675**49-51-54
52A	666	659F/40-41-44	701F/41-41-45 684**48-48-52	715F/41-41-45 691**50-51-55
49	684	673F/41-42-46	715F/43-43-47 700**48-49-53	729F/43-43-47 707**51-52-56
46	702	687F/42-43-47	730F/44-45-49 717**49-50-54	744F/45-45-49 724**52-53-57
43	720	701F/43-44-49	745F/46-46-50 733**50-51-55	760F/46-46-50 740**52-54-58
40	739	715F/44-45-50	760F/47-48-52 750**50-52-56	775F/47-48-52 757**53-55-59
37	758	729F/45-47-52	775F/48-50-54 767**51-53-57	791F/49-50-54 775**54-56-60
34	779	745F/46-48-53	791F/50-52-56 785**52-54-58	807F/50-52-56 790**54-55-60
31	797	758F/46-49-54	805F/51-52-57	822F/51-52-57
28	813	769F/47-50-56	819F/50-52-57	835F/50-52-57
25	819	775F/47-50-56	826F/50-52-57	843F/50-52-57
22	820	779F/48-51-56	829F/50-52-57	847F/50-52-57
19	821	782F/48-51-57	833F/50-52-57	851F/50-52-57
16	821	786F/49-52-57	837F/50-52-57	855F/50-52-57
13	822	790F/49-52-57	841F/50-52-57	859F/50-52-57
10	823	793F/49-52-57	846F/50-52-57	862F/50-52-57
5	824	800F/49-52-57	852F/50-52-57	862F/50-52-57
0	825	806F/49-52-57	860F/50-52-57	862F/50-52-57
-5	825	813F/49-52-57	862F/50-52-57	862F/50-52-57
-10	826	819F/49-52-57	862F/50-52-57	862F/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.07 PERCENT FOR TODA AND 0.07 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 05L/A8 ZLXY

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			XIANGYANG XA/NORTHWEST			
737-800		CFM56-7B26			DATED 10-JUN-2019			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE								
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)								
C	100KG	-10	0	10				
61A	618	613F/35-36-39	651F/36-36-40 635**43-44-47	664F/36-36-40 642**46-47-49				
58A	634	625F/36-37-41	664F/38-38-41 649**44-45-48	677F/38-38-41 656**47-47-50				
55A	650	636F/37-38-42	677F/40-40-43 664**45-45-49	690F/40-40-43 670**47-48-51				
52A	666	648F/38-39-43	690F/41-41-45 678**45-46-50	704F/41-41-45 685**48-49-52				
49	684	662F/39-41-45	704F/43-43-47 694**46-47-51	718F/43-43-47 701**49-50-53				
46	702	675F/40-42-46	718F/44-45-49 711**47-48-51	733F/45-45-49 718**50-51-54				
43	720	689F/41-43-48	732F/46-46-50 727**48-49-53	748F/46-46-50 735**50-52-55				
40	739	703F/42-44-49	747F/47-48-52 743**48-50-54	763F/47-48-52 751**51-53-56				
37	758	717F/43-45-51	762F/48-50-54 760**49-50-55	778F/49-50-54 769**52-53-57				
34	779	732F/44-47-52	778F/50-51-56	794F/50-52-56 787**53-54-59				
31	797	745F/45-48-53	792F/51-52-57	809F/51-52-57				
28	813	756F/46-49-54	805F/50-52-57	822F/50-52-57				
25	819	762F/46-49-55	812F/50-52-57	829F/50-52-57				
22	820	765F/46-49-55	816F/50-52-57	833F/50-52-57				
19	821	769F/47-50-56	820F/50-52-57	837F/50-52-57				
16	821	773F/47-50-56	824F/50-52-57	841F/50-52-57				
13	822	776F/48-51-56	828F/50-52-57	845F/50-52-57				
10	823	780F/48-51-57	832F/50-52-57	849F/50-52-57				
5	824	786F/49-52-57	839F/50-52-57	857F/50-52-57				
0	825	793F/49-52-57	846F/50-52-57	862F/50-52-57				
-5	825	799F/49-52-57	853F/50-52-57	862F/50-52-57				
-10	826	806F/49-52-57	860F/50-52-57	862F/50-52-57				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2900 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.07 PERCENT FOR TODA AND 0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05L/A8 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 05R ZLXY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIANGYANG
XA/NORTHWEST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	618	701F/36-36-40 650**49-51-54	738F/36-36-40 650**49-51-54	750F/36-36-40 650**50-51-54
58A	634	715F/37-38-41 666**50-53-56	753F/38-38-41 666**51-53-56	765F/38-38-41 666**51-53-56
55A	650	729F/39-40-43 683**52-55-58	768F/40-40-43 683**53-55-58	781F/40-40-43 683**53-55-58
52A	666	743F/40-41-45 699**53-56-59	784F/41-41-45 700**54-56-60	796F/41-41-45 700**54-56-60
49	684	759F/42-43-47 712**52-54-58	801F/43-43-47 719**56-58-62	814F/43-43-47 719**56-58-62
46	702	774F/43-45-49 724**51-53-57	818F/44-45-49 738**57-60-64	832F/44-45-49 738**58-60-64
43	720	784B/45-46-50 736**50-52-56	833F/45-46-50 758**59-62-66	849F/46-46-50 758**59-62-66
40	739	775B/46-48-52 749**49-51-55	848F/47-48-52 775**59-63-66	862F/47-48-52 778**61-64-68
37	758	767B/47-50-54 760**48-51-55	862F/48-50-54 790**58-62-65	862F/48-50-54 790**59-62-66
34	779	768B/48-50-55 790**53-55-60	862F/50-52-56 790**53-55-60	862F/50-52-56 790**53-55-60
31	797	773B/48-51-56 813	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
28	813	778B/48-51-56 819	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
25	819	782B/48-51-57 820	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
22	820	786B/48-52-57 821	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
19	821	790B/49-52-57 821	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
16	821	798B/49-52-57 822	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
13	822	806B/49-52-57 823	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
10	823	814B/49-52-57 824	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
5	824	828B/49-52-57 825	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
0	825	842B/49-52-57 825	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
-5	825	857B/49-52-57 826	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
-10	826	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 120 M OF STOPWAY
RUNWAY SLOPES ARE -0.14 PERCENT FOR TODA AND -0.14 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 05R/D7 ZLXY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIANGYANG

XA/NORTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	618	683F/36-36-40	722F/36-36-40	733F/36-36-40	
		650**49-51-54	650**49-51-54	650**50-51-54	
58A	634	697F/37-38-41	737F/38-38-41	748F/38-38-41	
		664**50-52-55	666**51-53-56	666**51-53-56	
55A	650	711F/39-40-43	751F/40-40-43	764F/40-40-43	
		680**51-53-56	683**53-55-58	683**53-55-58	
52A	666	725F/40-41-45	766F/41-41-45	779F/41-41-45	
		695**51-54-57	700**54-56-60	700**54-56-60	
49	684	740F/42-43-47	782F/43-43-47	796F/43-43-47	
		712**52-54-58	719**56-58-62	719**56-58-62	
46	702	755F/43-45-49	798F/44-45-49	813F/44-45-49	
		724**51-53-57	738**57-60-64	738**58-60-64	
43	720	771F/45-46-50	815F/45-46-50	830F/46-46-50	
		736**50-52-56	758**59-62-66	758**59-62-66	
40	739	775B/46-48-52	831F/47-48-52	846F/47-48-52	
		749**49-51-55	775**59-63-66	778**61-64-68	
37	758	767B/47-50-54	845F/48-50-54	861F/48-50-54	
		760**48-51-55	790**58-62-65	790**59-62-66	
34	779	768B/48-50-55	861F/50-52-56	862F/50-52-56	
			790**53-55-60	790**53-55-60	
31	797	773B/48-51-56	862F/50-52-57	862F/50-52-57	
28	813	778B/48-51-56	862F/50-52-57	862F/50-52-57	
25	819	782B/48-51-57	862F/50-52-57	862F/50-52-57	
22	820	786B/48-52-57	862F/50-52-57	862F/50-52-57	
19	821	790B/49-52-57	862F/50-52-57	862F/50-52-57	
16	821	798B/49-52-57	862F/50-52-57	862F/50-52-57	
13	822	806B/49-52-57	862F/50-52-57	862F/50-52-57	
10	823	814B/49-52-57	862F/50-52-57	862F/50-52-57	
5	824	828B/49-52-57	862F/50-52-57	862F/50-52-57	
0	825	842B/49-52-57	862F/50-52-57	862F/50-52-57	
-5	825	857B/49-52-57	862F/50-52-57	862F/50-52-57	
-10	826	862F/49-52-57	862F/50-52-57	862F/50-52-57	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 120 M OF STOPWAY
RUNWAY SLOPES ARE -0.14 PERCENT FOR TODA AND -0.14 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05R/D7 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 23L ZLXY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIANGYANG
XA/NORTHWEST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	618	696F/36-36-40 650**49-51-54	729F/36-36-40 650**50-51-54	741F/36-36-40 650**50-51-54
58A	634	710F/38-38-41 666**51-53-56	744F/38-38-41 666**51-53-56	756F/38-38-41 666**52-53-56
55A	650	724F/39-40-43 683**52-55-58	759F/40-40-43 683**53-55-58	771F/40-40-43 683**53-55-58
52A	666	738F/41-41-45 699**54-56-59	775F/41-41-45 700**54-56-60	787F/41-41-45 700**55-56-60
49	684	754F/42-43-47 712**52-55-58	792F/43-43-47 719**56-58-62	804F/43-43-47 719**56-58-62
46	702	769F/44-45-49 725**51-54-57	809F/44-45-49 738**58-60-64	822F/45-45-49 738**58-60-64
43	720	783F/45-46-50 737**50-53-56	826F/46-46-50 758**59-62-66	839F/46-46-50 758**60-62-66
40	739	777B/46-48-52 749**49-52-55	842F/47-48-52 776**60-63-67	857F/47-48-52 778**61-64-68
37	758	769B/48-50-54 761**49-51-55	857F/49-50-54 790**59-62-66	862F/49-50-54 790**59-62-66
34	779	769B/48-51-55 790**53-55-60	862F/50-52-56 790**54-55-60	862F/50-52-56 790**54-55-60
31	797	774B/48-51-56 801B/49-52-57	862F/51-52-57 862F/50-52-57	862F/51-52-57 862F/50-52-57
28	813	779B/48-51-56 809B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
25	819	784B/48-51-57 817B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
22	820	787B/49-52-57 831B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
19	821	793B/49-52-57 831B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
16	821	801B/49-52-57 831B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
13	822	809B/49-52-57 831B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
10	823	817B/49-52-57 846B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
5	824	831B/49-52-57 846B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
0	825	860B/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
-5	825	860B/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
-10	826	862F/49-52-57 862F/50-52-57	862F/50-52-57 862F/51-52-57	862F/50-52-57 862F/51-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 120 M OF STOPWAY
RUNWAY SLOPES ARE 0.14 PERCENT FOR TODA AND 0.14 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
23L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 23L/D2 ZLXY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIANGYANG

XA/NORTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	618	679F/36-36-40	713F/36-36-40	725F/36-36-40	
		648**48-50-53	650**50-51-54	650**50-51-54	
58A	634	692F/38-38-41	728F/38-38-41	739F/38-38-41	
		663**49-51-54	666**51-53-56	666**52-53-56	
55A	650	706F/39-40-43	743F/40-40-43	755F/40-40-43	
		678**50-52-55	683**53-55-58	683**53-55-58	
52A	666	720F/41-41-45	758F/41-41-45	770F/41-41-45	
		693**51-53-56	700**54-56-60	700**55-56-60	
49	684	735F/42-43-47	775F/43-43-47	787F/43-43-47	
		710**51-54-57	719**56-58-62	719**56-58-62	
46	702	750F/44-45-49	792F/44-45-49	804F/45-45-49	
		725**51-54-57	738**58-60-64	738**58-60-64	
43	720	766F/45-46-50	809F/46-46-50	821F/46-46-50	
		737**50-53-56	758**59-62-66	758**60-62-66	
40	739	777B/46-48-52	825F/47-48-52	839F/47-48-52	
		749**49-52-55	776**60-63-67	778**61-64-68	
37	758	769B/48-50-54	839F/49-50-54	855F/49-50-54	
		761**49-51-55	790**59-62-66	790**59-62-66	
34	779	769B/48-51-55	855F/50-52-56	862F/50-52-56	
			790**53-55-60	790**54-55-60	
31	797	774B/48-51-56	862F/51-52-57	862F/51-52-57	
28	813	779B/48-51-56	862F/50-52-57	862F/50-52-57	
25	819	784B/48-51-57	862F/50-52-57	862F/50-52-57	
22	820	787B/49-52-57	862F/50-52-57	862F/50-52-57	
19	821	793B/49-52-57	862F/50-52-57	862F/50-52-57	
16	821	801B/49-52-57	862F/50-52-57	862F/50-52-57	
13	822	809B/49-52-57	862F/50-52-57	862F/50-52-57	
10	823	817B/49-52-57	862F/50-52-57	862F/50-52-57	
5	824	831B/49-52-57	862F/50-52-57	862F/50-52-57	
0	825	846B/49-52-57	862F/50-52-57	862F/50-52-57	
-5	825	860B/49-52-57	862F/50-52-57	862F/50-52-57	
-10	826	862F/49-52-57	862F/50-52-57	862F/51-52-57	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 120 M OF STOPWAY
RUNWAY SLOPES ARE 0.14 PERCENT FOR TODA AND 0.14 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
23L/D2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 23R ZLXY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XIANGYANG
XA/NORTHWEST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	618	625F/36-36-40 622**37-38-41	663F/36-36-40 641**45-46-49	676F/36-36-40 646**48-49-52
58A	634	637F/37-38-41 636**38-39-42	676F/38-38-41 656**46-47-50	690F/38-38-41 661**49-50-53
55A	650	649F/39-40-43	690F/40-40-43 670**47-48-51	703F/40-40-43 676**50-51-54
52A	666	661F/40-41-45	703F/41-41-45 685**48-49-52	717F/41-41-45 692**50-52-55
49	684	675F/41-42-46	717F/43-43-47 701**48-50-53	732F/43-43-47 708**51-53-56
46	702	689F/42-43-47	732F/44-45-49 718**49-51-54	747F/44-45-49 725**52-54-57
43	720	703F/43-44-49	747F/46-46-50 734**50-52-55	762F/46-46-50 742**53-54-58
40	739	717F/44-46-50	762F/47-48-52 751**51-52-56	777F/47-48-52 759**53-55-59
37	758	732F/45-47-52	777F/48-50-54 768**51-53-57	793F/49-50-54 776**54-56-60
34	779	747F/46-48-53	794F/50-52-56 787**52-54-58	810F/50-52-56 790**53-55-60
31	797	760F/46-49-55	808F/50-52-57	825F/51-52-57
28	813	771F/47-50-56	821F/50-52-57	838F/50-52-57
25	819	777F/47-51-56	828F/50-52-57	845F/50-52-57
22	820	781F/48-51-57	832F/50-52-57	849F/50-52-57
19	821	784F/48-51-57	836F/50-52-57	854F/50-52-57
16	821	788F/49-52-57	840F/50-52-57	858F/50-52-57
13	822	792F/49-52-57	844F/50-52-57	862F/50-52-57
10	823	796F/49-52-57	848F/50-52-57	862F/50-52-57
5	824	802F/49-52-57	855F/50-52-57	862F/50-52-57
0	825	809F/49-52-57	862F/50-52-57	862F/50-52-57
-5	825	815F/49-52-57	862F/50-52-57	862F/50-52-57
-10	826	822F/49-52-57	862F/50-52-57	862F/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.07 PERCENT FOR TODA AND -0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 23R/A2 ZLXY

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			XIANGYANG XA/NORTHWEST
737-800 CFM56-7B26			DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 618	604F/34-35-38	643F/36-36-40 631**41-42-45	655F/36-36-40 638**44-45-48
58A 634	616F/35-36-40	655F/38-38-41 645**42-43-46	668F/38-38-41 651**45-45-49
55A 650	627F/36-37-41	667F/40-40-43 659**43-43-47	681F/40-40-43 666**46-46-50
52A 666	639F/37-38-42	680F/41-41-45 674**44-44-48	694F/41-41-45 680**46-47-50
49 684	652F/38-39-44	694F/43-43-47 689**44-45-49	709F/43-43-47 697**47-48-51
46 702	665F/39-41-45	708F/44-45-49 705**45-46-50	723F/44-45-49 713**48-49-52
43 720	679F/40-42-47	722F/46-46-50	737F/46-46-50 730**49-50-53
40 739	693F/41-43-48	737F/47-48-52	752F/47-48-52 746**49-51-55
37 758	707F/42-44-50	751F/48-49-53	767F/49-50-54 763**50-51-56
34 779	722F/43-45-51	767F/48-50-55	783F/50-52-56 781**51-52-57
31 797	734F/44-46-52	781F/49-51-56	797F/51-52-57
28 813	744F/44-47-53	794F/50-52-57	810F/50-52-57
25 819	750F/45-48-54	800F/50-52-57	817F/50-52-57
22 820	754F/45-48-54	804F/50-52-57	821F/50-52-57
19 821	757F/45-49-55	808F/50-52-57	825F/50-52-57
16 821	761F/46-49-55	812F/50-52-57	829F/50-52-57
13 822	765F/46-49-55	816F/50-52-57	833F/50-52-57
10 823	768F/47-50-56	820F/50-52-57	838F/50-52-57
5 824	774F/47-50-56	827F/50-52-57	845F/50-52-57
0 825	781F/48-51-57	834F/50-52-57	852F/50-52-57
-5 825	787F/49-52-57	841F/50-52-57	859F/50-52-57
-10 826	794F/49-52-57	848F/50-52-57	862F/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.07 PERCENT FOR TODA AND -0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23R/A2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3894 FT

RUNWAY 16

ZLYL

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

YUYANG
YL/NORTHWEST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	572	583*/31-32-34 585**37-38-41	600*/32-32-34 601**44-46-48	605*/32-32-34 601**44-46-48
58A	587	596*/32-33-36 598**37-39-42	614*/33-33-36 615**45-47-50	619*/33-33-36 616**46-47-50
55A	602	610*/34-35-38 611**37-39-42	628*/35-35-38 630**46-48-51	634*/35-35-38 632**47-49-52
52A	617	624*/35-36-40 625**38-40-43	643*/36-36-40 644**47-49-51	649*/36-36-40 649**49-51-54
49A	632	637*/37-38-41 638**39-40-44	657*/37-38-41 658**47-49-52	663**50-52-55 663**50-52-55
46	648	651*/38-40-43 652**40-42-45	672*/39-40-43 673**48-50-53	678*/39-40-43 678**51-53-56
43	665	667*/40-41-45 667**41-43-46	688*/40-41-45 689**49-51-54	695*/41-41-45 695**52-54-57
40	682	682*/41-43-47	705*/42-43-47 705**50-52-55	711*/42-43-47 711**52-55-58
37	700	698*/42-44-48	721*/43-45-48 721**50-53-56	728*/44-45-48 728**53-56-59
34	719	713F/44-46-50	739*/45-46-50 738**51-54-57	746*/45-46-50 746**54-56-60
31	735	726F/44-47-51	754*/46-48-52 753**52-54-58	761*/46-48-52 760**55-57-61
28	747	736F/45-48-52	766*/47-49-53 765**52-55-59	773*/47-49-53 772**55-58-62
25	758	745F/46-48-53	775*/48-50-54 775**53-56-60	783*/48-50-54 782**56-59-62
22	766	749B/46-49-53	784*/48-50-55 783**53-56-60	791*/49-50-55 790**56-59-63
19	766	753B/46-49-54	785*/48-51-55 785**54-57-61	793*/49-51-55 790**56-59-63
16	767	757B/47-50-54	787*/48-51-55 787**54-58-62	795*/49-51-55 790**56-59-63
13	767	761B/47-50-54	789*/49-51-55 789**55-58-62	796*/49-51-55 790**56-59-63
10	768	764B/47-50-55	790*/49-51-55 790**55-59-63	798*/49-51-55 790**56-59-63
5	769	769*/48-51-55	793*/49-51-55 790**55-58-62	801*/49-51-55 790**56-58-62
0	769	772*/48-51-55 773**49-52-57	796*/49-51-55 790**55-58-62	804*/49-51-55 790**55-58-62
-5	770	775*/48-51-55 777**50-54-58	799*/49-51-55 790**55-58-62	806*/49-51-55 790**55-58-62
-10	771	778*/48-51-55 781**51-55-59	801*/49-51-55 790**55-58-62	809*/49-51-55 790**55-58-62

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.35 PERCENT FOR TODA AND -0.35 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
16 49 1050 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3894 FT

RUNWAY 34

ZLYL

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			YUYANG YL/NORTHWEST	DATED 10-JUN-2019
737-800		CFM56-7B26			WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
OAT	CLIMB	C 100KG	-10	0	10	
61A	572	590F/32-32-34	622F/32-32-34	632F/32-32-34		
		582**35-36-38	598**43-44-46	601**45-46-48		
58A	587	601F/33-33-36	635F/33-33-36	645F/33-33-36		
		595**36-36-39	611**44-45-47	616**46-47-50		
55A	602	613F/35-35-38	648F/35-35-38	658F/35-35-38		
		608**37-37-40	626**45-45-48	630**47-48-51		
52A	617	625F/36-36-40	661F/36-36-40	672F/36-36-40		
		621**38-38-41	640**45-46-49	645**48-49-52		
49A	632	636F/38-38-41	674F/38-38-41	686F/38-38-41		
		634**38-39-42	654**46-47-50	659**49-50-53		
46	648	648F/39-40-43	687F/40-40-43	700F/40-40-43		
			668**47-48-51	674**50-50-54		
43	665	661F/40-41-45	701F/41-41-45	714F/41-41-45		
			683**48-49-52	690**50-51-55		
40	682	675F/41-42-46	715F/43-43-47	729F/43-43-47		
			699**49-50-53	706**51-52-56		
37	700	688F/42-43-47	730F/44-45-48	744F/45-45-48		
			715**49-50-54	722**52-53-57		
34	719	703F/43-45-49	745F/46-46-50	759F/46-46-50		
			733**50-51-55	740**53-54-58		
31	735	715F/44-46-50	758F/47-48-52	773F/47-48-52		
			747**51-52-56	754**53-55-59		
28	747	725F/45-46-51	769F/48-49-53	784F/48-49-53		
			759**51-53-57	766**54-56-60		
25	758	734F/45-47-52	778F/49-50-54	793F/49-50-54		
			769**52-54-58	776**55-56-60		
22	766	741F/46-48-53	806F/49-50-55	802F/50-50-55		
			777**53-54-58	784**55-57-61		
19	766	744F/46-48-53	790F/49-51-55	805F/50-51-55		
			779**53-55-59	786**56-58-62		
16	767	748F/47-49-53	794F/50-51-55	809F/50-51-55		
			781**54-55-59	788**56-58-62		
13	767	751F/47-49-54	797F/50-51-55	813F/50-51-55		
			783**54-56-60	790**57-59-63		
10	768	755F/47-49-54	801F/50-51-55	817F/50-51-55		
			785**55-57-61	790**57-59-63		
5	769	760F/48-50-54	808F/50-51-55	823F/50-51-55		
			788**56-58-62	790**57-58-62		
0	769	766F/49-51-55	814F/50-51-55	829F/50-51-55		
			790**56-58-62	790**56-58-62		
-5	770	772F/49-51-55	820F/50-51-55	835F/50-51-55		
		771**50-51-56	790**56-58-62	790**56-58-62		
-10	771	779F/49-51-55	826F/50-51-55	842F/50-51-55		
		775**51-52-57	790**56-58-62	790**56-58-62		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.35 PERCENT FOR TODA AND 0.35 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 4436 FT

RUNWAY 12

ZPJM

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				JINGMAIJICHANG LC/SOUTHWEST DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10
61A	562	504*/23-23-27 512**27-28-32	519*/25-25-29 533**34-35-38	524*/25-25-29 540**36-37-40		
58A	576	517*/24-24-29 523**27-28-32	532*/26-26-30 545**34-35-39	537*/27-27-31 553**37-38-41		
55A	591	530*/25-26-30 535**28-29-33	545*/28-28-32 558**35-36-40	550*/28-28-32 565**37-38-42		
52A	607	543*/26-27-32 547**29-30-34	559*/29-29-34 571**35-36-40	564*/30-30-34 578**38-39-43		
49A	621	556*/28-28-33 559**29-30-35	572*/31-31-35 583**36-37-41	577*/31-31-36 591**39-40-44		
46A	636	569*/29-30-35 571**30-31-36	585*/32-32-37 595**37-38-42	591*/33-33-37 604**39-40-44		
43	652	583*/30-31-37	600*/33-34-38 609**38-39-43	605*/34-34-39 617**40-41-45		
40	670	596F/32-33-38	615*/35-35-40 622**39-40-44	621*/36-36-41 631**41-42-46		
37	687	608F/33-34-40	630*/36-37-42 636**39-40-45	636*/37-37-42 645**42-43-48		
34	705	619F/33-35-41	645*/38-38-44 650**40-41-46	651*/39-39-44 660**43-44-48		
31	721	629F/34-36-42	659*/39-40-45 664**41-42-47	665*/40-40-46 673**43-44-49		
28	732	637F/35-37-43	669*/40-41-46 673**42-43-48	675*/41-41-47 682**44-45-50		
25	742	644F/35-37-44	678*/41-41-47 682**42-43-49	684*/42-42-48 691**45-46-51		
22	751	650F/36-38-45	685*/41-42-48 689**43-44-49	692*/42-43-48 699**45-46-52		
19	753	654F/37-38-45	688*/41-42-48 692**43-45-50	694*/43-43-49 702**46-47-52		
16	754	657F/37-39-45	688*/42-42-48 694**44-45-51	695*/43-43-49 704**46-48-53		
13	755	660F/37-39-46	689*/42-42-48 696**45-46-51	696*/43-43-49 706**47-48-54		
10	755	664F/38-40-46	690*/42-43-48 698**45-47-52	696*/43-43-49 708**48-49-54		
5	756	669F/39-40-46	691*/42-43-48 701**46-48-53	697*/43-43-49 711**49-50-55		
0	757	672*/39-41-47 673**39-41-47	692*/42-43-48 704**47-49-54	698*/43-43-49 714**50-51-56		
-5	757	673*/39-41-47 676**40-42-48	693*/42-43-49 707**48-50-55	699*/43-44-49 717**51-53-58		
-10	758	674*/39-41-47 679**41-43-49	693*/42-43-49 710**49-51-56	700*/44-44-49 719**52-54-59		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 920 FT
 LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.53 PERCENT FOR TODA AND 0.53 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 12 98 1540 0 157 2270 0 285 3985 0
 633 7420 0 285 4660 0 328 7277 0
 171 2771 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 4436 FT

RUNWAY 30

ZPJM

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			JINGMAIJICHANG
737-800		CFM56-7B26			LC/SOUTHWEST
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			DATED 10-JUN-2019
C	100KG	-10	0	10	
61A	562	533F/26-27-30	562*/30-30-33	566*/30-30-33	
			565**31-32-35	571**34-34-37	
58A	576	543F/27-28-31	576*/32-32-35	580*/32-32-35	
			577**32-32-35	584**35-35-38	
55A	591	554F/27-29-33	589F/33-33-37	595*/34-34-37	
				597**35-36-39	
52A	607	564F/28-30-34	600F/34-34-38	610*/35-35-39	
				610**36-37-40	
49A	621	575F/29-31-35	611F/35-36-39	624F/36-37-40	
				623**37-37-41	
46A	636	585F/30-32-37	622F/36-37-40	635F/38-38-42	
43	652	596F/31-33-38	634F/37-38-42	647F/39-39-43	
40	670	608F/32-34-39	646F/38-39-43	660F/40-41-45	
37	687	619F/33-35-41	659F/39-40-45	673F/41-42-46	
34	705	630F/34-36-42	672F/40-41-46	686F/42-43-47	
31	721	641F/35-37-43	684F/41-42-47	698F/43-44-49	
28	732	648F/35-38-44	693F/41-43-48	708F/43-45-50	
25	742	656F/36-39-45	701F/42-44-49	716F/44-46-50	
22	751	663F/36-39-46	709F/43-45-50	724F/45-46-51	
19	753	667F/37-40-46	713F/43-45-50	728F/45-47-52	
16	754	670F/37-40-46	717F/44-45-51	732F/45-47-52	
13	755	674F/38-41-47	720F/44-46-51	736F/46-48-52	
10	755	677F/38-41-47	724F/44-46-51	739F/46-48-53	
5	756	683F/39-42-48	730F/45-47-52	745F/47-49-53	
0	757	689F/40-42-48	736F/46-47-52	752F/48-49-54	
-5	757	695F/40-43-49	742F/46-48-53	758F/48-50-54	
-10	758	701F/41-44-49	748F/47-49-53	759*/48-50-54	
				761**49-51-55	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 650 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.53 PERCENT FOR TODA AND -0.53 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 30 436 8500 0 348 8290 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2877 FT

RUNWAY 23

ZPMs

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF MANGSHI JICHANG
 LJ/SOUTHWEST
 737-800 CFM56-7B26 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	592	513*/22-23-28 529**32-35-39	529*/25-25-30 546**35-37-41	535*/26-26-31 551**36-38-42
58A	607	526*/24-25-30 542**33-36-41	543*/27-27-32 559**37-39-43	548*/28-28-32 565**38-40-44
55A	623	540*/25-26-32 554**34-37-41	556*/28-28-33 573**38-41-45	562*/29-29-34 579**39-42-46
52A	638	553*/26-28-33 567**34-37-42	570*/29-30-35 587**40-42-47	576*/31-31-36 593**41-43-47
49A	654	566*/28-29-35 579**35-38-43	583*/31-31-37 601**41-44-48	589*/32-32-37 607**42-45-49
46	671	581*/29-31-37 593**35-39-44	598*/32-33-38 617**43-46-50	604*/33-34-39 623**44-47-51
43	689	595*/30-32-38 606**36-39-45	613*/33-35-40 631**44-47-52	619*/35-35-41 638**45-48-53
40	707	609*/31-34-40 619**37-40-46	627*/35-36-42 645**45-48-53	633*/36-37-42 652**47-50-55
37	726	624*/33-35-42 633**38-41-47	643*/36-38-44 660**46-49-54	649*/37-38-44 668**48-51-56
34	744	638*/34-37-43 646**38-42-48	657*/37-39-45 674**46-50-55	664*/38-40-46 683**49-53-58
31	761	651*/35-38-45 659**39-42-49	670*/38-40-47 687**47-51-56	677*/40-41-47 696**50-53-59
28	775	663*/36-39-46 670**39-43-50	683*/39-41-48 699**48-51-57	689*/41-42-48 708**50-54-59
25	787	672*/37-40-47 679**40-44-50	693*/40-42-49 709**48-52-58	699*/41-43-49 718**51-54-60
22	790	675*/37-40-47 682**41-44-51	695*/41-42-49 712**49-52-58	702*/42-43-50 722**51-55-61
19	791	676*/37-40-47 684**41-45-52	696*/41-43-49 714**49-53-59	703*/42-43-50 723**52-56-61
16	791	676*/37-40-47 685**42-46-52	697*/41-43-49 715**50-54-59	703*/42-43-50 725**52-56-62
13	792	676*/37-40-47 687**42-46-53	697*/41-43-49 716**50-54-60	704*/42-43-50 726**53-57-63
10	792	677*/38-40-48 689**43-47-54	698*/41-43-49 718**51-55-61	704*/42-43-50 727**53-57-63
5	793	678*/38-40-48 691**44-48-55	698*/41-43-49 720**52-56-62	705*/42-44-50 728**53-57-63
0	794	678*/38-40-48 693**45-49-56	699*/41-43-49 721**52-57-62	706*/42-44-50 729**53-57-63
-5	795	679*/38-41-48 695**46-51-57	700*/41-43-50 722**52-57-62	707*/42-44-50 730**54-57-63
-10	795	679*/38-41-48 697**47-52-58	700*/41-43-50 723**52-57-62	707*/43-44-50 730**54-58-63

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1620 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.16 PERCENT FOR TODA AND -0.16 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23 331 5490 0 482 8189 0 1122 12387 0
 1247 12500 0

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 03

ZPPP

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10
61			
58			
55A 534	540*/27-27-30	553*/27-27-30	557*/27-27-30
	552**38-40-42	561**40-41-43	561**40-41-43
52A 548	554*/29-29-32	567*/29-29-32	571*/29-29-32
	564**39-41-44	576**41-43-45	576**41-43-45
49A 562	567*/30-30-33	580*/30-30-33	584*/30-30-33
	577**40-43-45	590**43-45-47	590**43-45-47
46A 575	579*/31-32-35	594*/32-32-35	598*/32-32-35
	590**42-44-47	604**44-46-49	604**45-46-49
43A 589	592*/33-33-37	607*/33-33-37	611*/33-33-37
	603**43-46-48	619**46-48-51	619**46-48-51
40 603	606*/34-35-38	621*/35-35-38	625*/35-35-38
	616**44-47-50	634**48-50-52	634**48-50-52
37 619	621*/36-37-40	636*/36-37-40	641*/37-37-40
	630**46-49-52	651**49-51-54	651**50-51-54
34 636	637*/37-38-42	653*/38-38-42	658*/38-38-42
	646**47-50-54	667**51-53-56	669**51-53-56
31 652	651*/39-40-44	668*/39-40-44	673*/40-40-44
	661**47-50-54	683**52-55-58	685**53-55-58
28 666	665*/40-41-45	682*/41-41-45	687*/41-41-45
	673**46-49-53	697**54-56-59	701**54-57-60
25 677	675*/41-42-46	693*/42-42-46	698*/42-42-46
	682**46-48-52	708**55-57-61	713**55-58-61
22 684	682*/41-43-47	700*/42-43-47	706*/43-43-47
	689**46-48-52	715**55-58-61	720**56-59-62
19 691	689*/42-44-48	707*/43-44-48	713*/43-44-48
	695**46-48-52	723**55-58-61	728**57-59-63
16 696	695*/43-44-48	713*/43-44-48	719*/44-44-48
	701**46-48-52	729**55-58-61	735**57-60-63
13 697	696*/43-44-48	714*/44-44-48	720*/44-44-48
	702**46-49-53	731**56-59-62	735**57-60-64
10 697	697*/43-44-48	715*/44-44-48	721*/44-44-48
	704**47-49-53	732**57-59-63	736**57-60-64
5 698	699*/43-44-48	717*/44-44-48	723*/44-44-48
	708**48-51-54	735**57-60-64	736**58-60-64
0 698	701*/43-45-48	719*/44-45-48	724*/44-45-48
	711**49-52-55	737**57-60-64	737**58-60-64
-5 699	703*/43-45-49	720*/44-45-49	726*/44-45-49
	714**50-53-57	738**58-60-64	738**58-60-64
-10 700	704*/43-45-49	722*/44-45-49	727*/44-45-49
	718**51-54-58	738**58-60-64	738**58-60-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FRT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 108 1680 0 82 1730 0

Engine out procedure: 3000m/9800ft as the separation altitude: if one engine failure occurs below the altitude, continue to climb along 24° magnetic track, after 3000m/9800ft, turn right and flight direct to DJT(P146-01D), follow the ATC's instructions to join route or landing back; if one engine failure occurs above this altitude, according to the SID procedures climb to the safe altitude, follow the ATC's instructions.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 03/F9 ZPPP

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61

58

55A	534	536*/27-27-30 545**37-39-41	550*/27-27-30 561**40-41-43	554*/27-27-30 561**40-41-43
52A	548	549*/29-29-32 558**38-40-43	563*/29-29-32 576**41-43-45	567*/29-29-32 576**41-43-45
49A	562	562*/30-30-33 571**39-42-44	577*/30-30-33 590**43-44-47	581*/30-30-33 590**43-45-47
46A	575	574*/31-32-35 583**41-43-46	590*/32-32-35 603**44-46-49	594*/32-32-35 604**45-46-49
43A	589	587*/32-33-36 595**42-45-48	603*/33-33-37 616**46-47-50	608*/33-33-37 619**46-48-51
40	603	600*/34-35-38 609**43-46-49	617*/35-35-38 629**47-49-52	622*/35-35-38 634**48-50-52
37	619	615*/35-36-40 623**44-46-50	632*/36-37-40 644**48-51-54	637*/37-37-40 651**50-51-54
34	636	631*/37-38-41 638**44-47-50	648*/38-38-42 660**50-52-55	653*/38-38-42 667**51-53-56
31	652	645*/38-39-43 653**46-49-52	664*/39-40-44 675**51-54-57	669*/40-40-44 683**53-55-58
28	666	658*/39-41-44 666**46-49-52	677*/41-41-45 689**52-55-58	683*/41-41-45 696**54-56-59
25	677	668*/40-42-46 676**47-49-53	688*/42-42-46 700**53-56-59	694*/42-42-46 707**55-57-61
22	684	675*/41-42-46 683**47-49-53	695*/42-43-47 707**54-57-60	701*/43-43-47 715**55-58-61
19	691	682*/41-43-47 689**46-49-53	702*/43-44-48 714**55-57-61	708*/43-44-48 723**56-59-62
16	696	688*/42-43-48 695**47-49-53	708*/43-44-48 721**55-58-62	714*/44-44-48 729**57-59-63
13	697	689*/42-44-48 697**47-50-54	709*/44-44-48 723**56-59-62	715*/44-44-48 731**57-60-63
10	697	690*/42-44-48 698**48-50-54	710*/44-44-48 724**56-59-62	716*/44-44-48 732**57-60-63
5	698	692*/42-44-48 702**49-52-56	712*/44-44-48 727**56-59-63	718*/44-44-48 735**57-60-64
0	698	694*/43-44-48 705**50-53-57	714*/44-45-48 730**57-59-63	719*/44-45-48 737**58-60-64
-5	699	696*/43-44-48 707**51-54-58	715*/44-45-49 732**57-60-63	721*/44-45-49 738**58-60-64
-10	700	698*/43-44-48 710**52-55-58	717*/44-45-49 735**57-60-63	723*/44-45-49 738**58-60-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/F9 108 1680 0 82 1730 0

Engine out procedure: 3000m/9800ft as the separation altitude: if one engine failure occurs below the altitude, continue to climb along 24° magnetic track, after 3000m/9800ft, turn right and flight direct to DJT(P146-01D), follow the ATC's instructions to join route or landing back; if one engine failure occurs above this altitude, according to the SID procedures climb to the safe altitude, follow the ATC's instructions.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 04

ZPPP

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF					CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26					DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10	
61	58				
55A	534	641F/27-27-30	671F/27-27-30	681F/27-27-30	
		561**39-41-43	561**40-41-43	561**40-41-43	
52A	548	655F/29-29-32	685F/29-29-32	696F/29-29-32	
		576**41-43-45	576**41-43-45	576**41-43-45	
49A	562	668F/30-30-33	699F/30-30-33	710F/30-30-33	
		590**42-45-47	590**43-45-47	590**43-45-47	
46A	575	681F/31-32-35	713F/32-32-35	724F/32-32-35	
		604**44-46-49	604**44-46-49	604**45-46-49	
43A	589	695F/33-33-37	727F/33-33-37	738F/33-33-37	
		619**45-48-51	619**46-48-51	619**46-48-51	
40	603	708F/34-35-38	741F/35-35-38	753F/35-35-38	
		634**47-50-52	634**48-50-52	634**48-50-52	
37	619	721F/36-37-40	757F/36-37-40	769F/37-37-40	
		649**48-51-53	651**49-51-54	651**50-51-54	
34	636	734F/37-38-42	774F/38-38-42	786F/38-38-42	
		661**47-49-52	669**51-53-56	669**51-53-56	
31	652	735B/39-40-44	788F/39-40-44	802F/40-40-44	
		672**46-48-51	685**53-55-58	685**53-55-58	
28	666	728B/40-41-45	800F/41-41-45	814F/41-41-45	
		681**45-47-51	701**54-57-60	701**54-57-60	
25	677	725B/41-42-46	809F/42-42-46	824F/42-42-46	
		689**45-47-51	712**55-57-61	713**55-58-61	
22	684	725B/42-43-47	817F/42-43-47	832F/43-43-47	
		694**45-47-51	718**55-57-61	720**56-59-62	
19	691	726B/42-44-48	825F/43-44-48	840F/43-44-48	
		700**45-47-51	725**55-58-61	728**57-59-63	
16	696	727B/43-44-48	832F/43-44-48	847F/44-44-48	
		705**45-47-51	730**55-58-61	735**57-60-63	
13	697	734B/43-44-48	835F/44-44-48	851F/44-44-48	
		707**46-48-52	732**56-58-62	735**57-60-64	
10	697	741B/43-44-48	839F/44-44-48	855F/44-44-48	
		709**47-49-52	734**56-59-63	736**57-60-64	
5	698	753B/43-44-48	846F/44-44-48	862F/44-44-48	
		712**48-50-53	736**57-60-64	736**58-60-64	
0	698	765B/43-45-48	853F/44-45-48	862F/44-45-48	
		716**49-51-54	737**57-60-64	737**58-60-64	
-5	699	778B/43-45-49	859F/44-45-49	862F/44-45-49	
		719**50-52-56	738**58-60-64	738**58-60-64	
-10	700	791B/43-45-49	862F/44-45-49	862F/44-45-49	
		723**51-53-57	738**58-60-64	738**58-60-64	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FRT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

04 NONE

Engine out procedure:2700m/8900ft as the seperation altitude;if one engine failure occurs below the altitude,continue climb along the 54° magnetic track, after 2700m/8900ft, flight direct to DJT then follow the ATC instructions to join route or landing back ;if one engine failure occurs above this seperation altitude ,according to the SID procedure climb to the safe altitude, follow the ATC's instructions

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 04/C9 ZPPP

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61

58

55A	534	628F/27-27-30	657F/27-27-30	667F/27-27-30
		561**39-41-43	561**40-41-43	561**40-41-43
52A	548	641F/29-29-32	671F/29-29-32	681F/29-29-32
		576**41-43-45	576**41-43-45	576**41-43-45
49A	562	654F/30-30-33	684F/30-30-33	695F/30-30-33
		590**42-45-47	590**43-45-47	590**43-45-47
46A	575	666F/31-32-35	698F/32-32-35	709F/32-32-35
		604**44-46-49	604**44-46-49	604**45-46-49
43A	589	679F/33-33-37	712F/33-33-37	723F/33-33-37
		619**45-48-51	619**46-48-51	619**46-48-51
40	603	692F/34-35-38	726F/35-35-38	737F/35-35-38
		634**47-50-52	634**48-50-52	634**48-50-52
37	619	706F/36-37-40	742F/36-37-40	753F/37-37-40
		649**48-51-53	651**49-51-54	651**50-51-54
34	636	720F/37-38-42	758F/38-38-42	770F/38-38-42
		661**47-49-52	669**51-53-56	669**51-53-56
31	652	733F/39-40-44	773F/39-40-44	785F/40-40-44
		672**46-48-51	685**53-55-58	685**53-55-58
28	666	728B/40-41-45	784F/41-41-45	799F/41-41-45
		681**45-47-51	701**54-57-60	701**54-57-60
25	677	725B/41-42-46	794F/42-42-46	809F/42-42-46
		689**45-47-51	712**55-57-61	713**55-58-61
22	684	725B/42-43-47	802F/42-43-47	816F/43-43-47
		694**45-47-51	718**55-57-61	720**56-59-62
19	691	726B/42-44-48	809F/43-44-48	824F/43-44-48
		700**45-47-51	725**55-58-61	728**57-59-63
16	696	727B/43-44-48	816F/43-44-48	831F/44-44-48
		705**45-47-51	730**55-58-61	735**57-60-63
13	697	734B/43-44-48	820F/44-44-48	835F/44-44-48
		707**46-48-52	732**56-58-62	735**57-60-64
10	697	741B/43-44-48	824F/44-44-48	839F/44-44-48
		709**47-49-52	734**56-59-63	736**57-60-64
5	698	753B/43-44-48	830F/44-44-48	845F/44-44-48
		712**48-50-53	736**57-60-64	736**58-60-64
0	698	765B/43-45-48	836F/44-45-48	852F/44-45-48
-5	699	716**49-51-54	737**57-60-64	737**58-60-64
-10	700	778B/43-45-49	843F/44-45-49	859F/44-45-49
		719**50-52-56	738**58-60-64	738**58-60-64
		791B/43-45-49	850F/44-45-49	862F/44-45-49
		723**51-53-57	738**58-60-64	738**58-60-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF

75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4280 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

04/C9 NONE

Engine out procedure:2700m/8900ft as the seperation altitude;if one engine failure occurs below the altitude,continue climb along the 54° magnetic track, after 2700m/8900ft, flight direct to DJT then follow the ATC instructions to join route or landing back ;if one engine failure occurs above this seperation altitude ,according to the SID procedure climb to the safe altitude, follow the ATC's instructions

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 21

ZPPP

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF					CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26					DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10	
61	58				
55A	534	609F/27-27-30	637F/27-27-30	646F/27-27-30	
		561**39-41-43	561**40-41-43	561**40-41-43	
52A	548	621F/29-29-32	650F/29-29-32	660F/29-29-32	
		576**41-43-45	576**41-43-45	576**42-43-45	
49A	562	632F/30-30-33	663F/30-30-33	673F/30-30-33	
		590**43-45-47	590**43-45-47	590**43-45-47	
46A	575	644F/31-32-35	676F/32-32-35	686F/32-32-35	
		604**44-46-49	604**45-46-49	604**45-46-49	
43A	589	656F/33-33-37	689F/33-33-37	700F/33-33-37	
		619**46-48-51	619**46-48-51	619**46-48-51	
40	603	669F/34-35-38	703F/35-35-38	714F/35-35-38	
		634**47-50-52	634**48-50-52	634**48-50-52	
37	619	683F/36-37-40	718F/36-37-40	729F/37-37-40	
		649**48-51-54	651**50-51-54	651**50-51-54	
34	636	697F/37-38-42	734F/38-38-42	746F/38-38-42	
		661**47-49-52	669**51-53-56	669**51-53-56	
31	652	711F/39-40-44	749F/40-40-44	761F/40-40-44	
		672**46-48-51	685**53-55-58	685**53-55-58	
28	666	723F/40-41-45	762F/41-41-45	775F/41-41-45	
		681**46-48-51	701**54-57-60	701**54-57-60	
25	677	725B/41-42-46	772F/42-42-46	786F/42-42-46	
		689**45-47-51	712**55-58-61	713**56-58-61	
22	684	726B/42-43-47	779F/42-43-47	794F/43-43-47	
		695**45-47-51	718**55-58-61	720**56-59-62	
19	691	726B/42-44-48	787F/43-44-48	801F/43-44-48	
		700**45-47-51	725**55-58-61	728**57-59-63	
16	696	728B/43-44-48	794F/44-44-48	808F/44-44-48	
		705**45-47-51	730**55-58-61	735**57-60-63	
13	697	735B/43-44-48	797F/44-44-48	812F/44-44-48	
		707**46-48-52	732**56-59-62	735**58-60-64	
10	697	742B/43-44-48	801F/44-44-48	815F/44-44-48	
		709**47-49-52	734**57-59-63	736**58-60-64	
5	698	754B/43-44-48	807F/44-44-48	822F/44-44-48	
		712**48-50-53	736**57-60-64	736**58-60-64	
0	698	766B/43-45-48	813F/44-45-48	828F/44-45-48	
		716**49-51-55	737**58-60-64	737**58-60-64	
-5	699	775F/43-45-49	819F/44-45-49	834F/44-45-49	
		719**50-52-56	738**58-60-64	738**58-60-64	
-10	700	781F/43-45-49	826F/44-45-49	839F/45-45-49	
		723**51-53-57	738**58-60-64	738**58-60-64	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 21/F2 ZPPP

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61	55A	534	593F/27-27-30	622F/27-27-30	632F/27-27-30
58			561**39-41-43	561**40-41-43	561**40-41-43
52A	548	605F/29-29-32	635F/29-29-32	645F/29-29-32	
		576**41-43-45	576**41-43-45	576**42-43-45	
49A	562	616F/30-30-33	648F/30-30-33	658F/30-30-33	
		589**42-44-46	590**43-45-47	590**43-45-47	
46A	575	628F/31-32-35	661F/32-32-35	671F/32-32-35	
		601**42-44-47	604**45-46-49	604**45-46-49	
43A	589	639F/33-33-37	674F/33-33-37	684F/33-33-37	
		614**43-45-48	619**46-48-51	619**46-48-51	
40	603	651F/34-35-38	687F/35-35-38	698F/35-35-38	
		628**44-46-49	634**48-50-52	634**48-50-52	
37	619	665F/36-37-40	701F/36-37-40	713F/37-37-40	
		643**45-47-50	651**50-51-54	651**50-51-54	
34	636	679F/37-38-42	716F/38-38-42	729F/38-38-42	
		658**46-48-51	669**51-53-56	669**51-53-56	
31	652	693F/39-40-44	730F/40-40-44	743F/40-40-44	
		672**46-48-51	685**53-55-58	685**53-55-58	
28	666	704F/40-41-45	743F/41-41-45	756F/41-41-45	
		681**46-48-51	701**54-57-60	701**54-57-60	
25	677	714F/41-42-46	753F/42-42-46	766F/42-42-46	
		689**45-47-51	712**55-58-61	713**56-58-61	
22	684	721F/42-43-47	761F/42-43-47	775F/43-43-47	
		695**45-47-51	718**55-58-61	720**56-59-62	
19	691	726B/42-44-48	769F/43-44-48	783F/43-44-48	
		700**45-47-51	725**55-58-61	728**57-59-63	
16	696	728B/43-44-48	776F/44-44-48	790F/44-44-48	
		705**45-47-51	730**55-58-61	735**57-60-63	
13	697	735B/43-44-48	779F/44-44-48	794F/44-44-48	
		707**46-48-52	732**56-59-62	735**58-60-64	
10	697	742B/43-44-48	783F/44-44-48	797F/44-44-48	
		709**47-49-52	734**57-59-63	736**58-60-64	
5	698	748F/43-44-48	789F/44-44-48	803F/44-44-48	
		712**48-50-53	736**57-60-64	736**58-60-64	
0	698	753F/43-45-48	795F/44-45-48	809F/44-45-48	
-5	699	716**49-51-55	737**58-60-64	737**58-60-64	
-10	700	758F/43-45-49	802F/44-45-49	814F/44-45-49	
		719**50-52-56	738**58-60-64	738**58-60-64	
		764F/43-45-49	807F/44-45-49	820F/45-45-49	
		723**51-53-57	738**58-60-64	738**58-60-64	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

21/F2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22

ZPPP

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800	CFM56-7B26		DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C	100KG	-10 0 10	
61	58		
55A	534	639F/27-27-30 561**39-41-43	668F/27-27-30 561**40-41-43
52A	548	652F/29-29-32 576**41-43-45	682F/29-29-32 576**41-43-45
49A	562	665F/30-30-33 590**43-45-47	696F/30-30-33 590**43-45-47
46A	575	678F/31-32-35 604**44-46-49	710F/32-32-35 604**45-46-49
43A	589	692F/33-33-37 619**46-48-51	724F/33-33-37 619**46-48-51
40	603	706F/34-35-38 634**47-50-52	738F/35-35-38 634**48-50-52
37	619	719F/36-37-40 649**48-51-54	754F/36-37-40 651**50-51-54
34	636	733F/37-38-42 661**47-49-52	771F/38-38-42 669**51-53-56
31	652	735B/39-40-44 672**46-48-51	786F/40-40-44 685**53-55-58
28	666	729B/40-41-45 681**46-48-51	798F/41-41-45 701**54-57-60
25	677	725B/41-42-46 689**45-47-51	807F/42-42-46 712**55-58-61
22	684	726B/42-43-47 695**45-47-51	815F/42-43-47 718**55-58-61
19	691	726B/42-44-48 700**45-47-51	823F/43-44-48 725**55-58-61
16	696	728B/43-44-48 705**45-47-51	830F/44-44-48 730**55-58-61
13	697	735B/43-44-48 707**46-48-52	834F/44-44-48 732**56-59-62
10	697	742B/43-44-48 709**47-49-52	837F/44-44-48 734**57-59-63
5	698	754B/43-44-48 712**48-50-53	844F/44-44-48 736**57-60-64
0	698	766B/43-45-48 716**49-51-55	851F/44-45-48 737**58-60-64
-5	699	778B/43-45-49 719**50-52-56	857F/44-45-49 738**58-60-64
-10	700	792B/43-45-49 723**51-53-57	862F/44-45-49 738**58-60-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22/C2 ZPPP

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61			
58			
55A 534	593F/27-27-30	622F/27-27-30	632F/27-27-30
	561**39-41-43	561**40-41-43	561**40-41-43
52A 548	605F/29-29-32	635F/29-29-32	645F/29-29-32
	576**41-43-45	576**41-43-45	576**42-43-45
49A 562	616F/30-30-33	648F/30-30-33	658F/30-30-33
	589**42-44-46	590**43-45-47	590**43-45-47
46A 575	628F/31-32-35	661F/32-32-35	671F/32-32-35
	601**42-44-47	604**45-46-49	604**45-46-49
43A 589	639F/33-33-37	674F/33-33-37	684F/33-33-37
	614**43-45-48	619**46-48-51	619**46-48-51
40 603	651F/34-35-38	687F/35-35-38	698F/35-35-38
	628**44-46-49	634**48-50-52	634**48-50-52
37 619	665F/36-37-40	701F/36-37-40	713F/37-37-40
	643**45-47-50	651**50-51-54	651**50-51-54
34 636	679F/37-38-42	716F/38-38-42	729F/38-38-42
	658**46-48-51	669**51-53-56	669**51-53-56
31 652	693F/39-40-44	730F/40-40-44	743F/40-40-44
	672**46-48-51	685**53-55-58	685**53-55-58
28 666	704F/40-41-45	743F/41-41-45	756F/41-41-45
	681**46-48-51	701**54-57-60	701**54-57-60
25 677	714F/41-42-46	753F/42-42-46	766F/42-42-46
	689**45-47-51	712**55-58-61	713**56-58-61
22 684	721F/42-43-47	761F/42-43-47	775F/43-43-47
	695**45-47-51	718**55-58-61	720**56-59-62
19 691	726B/42-44-48	769F/43-44-48	783F/43-44-48
	700**45-47-51	725**55-58-61	728**57-59-63
16 696	728B/43-44-48	776F/44-44-48	790F/44-44-48
	705**45-47-51	730**55-58-61	735**57-60-63
13 697	735B/43-44-48	779F/44-44-48	794F/44-44-48
	707**46-48-52	732**56-59-62	735**58-60-64
10 697	742B/43-44-48	783F/44-44-48	797F/44-44-48
	709**47-49-52	734**57-59-63	736**58-60-64
5 698	748F/43-44-48	789F/44-44-48	803F/44-44-48
	712**48-50-53	736**57-60-64	736**58-60-64
0 698	753F/43-45-48	795F/44-45-48	809F/44-45-48
	716**49-51-55	737**58-60-64	737**58-60-64
-5 699	758F/43-45-49	802F/44-45-49	814F/44-45-49
	719**50-52-56	738**58-60-64	738**58-60-64
-10 700	764F/43-45-49	807F/44-45-49	820F/45-45-49
	723**51-53-57	738**58-60-64	738**58-60-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22/C2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22/J ZPPP

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
61	58	-10	0	10
55A	534	609F/27-27-30	637F/27-27-30	646F/27-27-30
		561**39-41-43	561**40-41-43	561**40-41-43
52A	548	621F/29-29-32	650F/29-29-32	660F/29-29-32
		576**41-43-45	576**41-43-45	576**42-43-45
49A	562	632F/30-30-33	663F/30-30-33	673F/30-30-33
		590**43-45-47	590**43-45-47	590**43-45-47
46A	575	644F/31-32-35	676F/32-32-35	686F/32-32-35
		604**44-46-49	604**45-46-49	604**45-46-49
43A	589	656F/33-33-37	689F/33-33-37	700F/33-33-37
		619**46-48-51	619**46-48-51	619**46-48-51
40	603	669F/34-35-38	703F/35-35-38	714F/35-35-38
		634**47-50-52	634**48-50-52	634**48-50-52
37	619	683F/36-37-40	718F/36-37-40	729F/37-37-40
		649**48-51-54	651**50-51-54	651**50-51-54
34	636	697F/37-38-42	734F/38-38-42	746F/38-38-42
		661**47-49-52	669**51-53-56	669**51-53-56
31	652	711F/39-40-44	749F/40-40-44	761F/40-40-44
		672**46-48-51	685**53-55-58	685**53-55-58
28	666	723F/40-41-45	762F/41-41-45	775F/41-41-45
		681**46-48-51	701**54-57-60	701**54-57-60
25	677	725B/41-42-46	772F/42-42-46	786F/42-42-46
		689**45-47-51	712**55-58-61	713**56-58-61
22	684	726B/42-43-47	779F/42-43-47	794F/43-43-47
		695**45-47-51	718**55-58-61	720**56-59-62
19	691	726B/42-44-48	787F/43-44-48	801F/43-44-48
		700**45-47-51	725**55-58-61	728**57-59-63
16	696	728B/43-44-48	794F/44-44-48	808F/44-44-48
		705**45-47-51	730**55-58-61	735**57-60-63
13	697	735B/43-44-48	797F/44-44-48	812F/44-44-48
		707**46-48-52	732**56-59-62	735**58-60-64
10	697	742B/43-44-48	801F/44-44-48	815F/44-44-48
		709**47-49-52	734**57-59-63	736**58-60-64
5	698	754B/43-44-48	807F/44-44-48	822F/44-44-48
		712**48-50-53	736**57-60-64	736**58-60-64
0	698	766B/43-45-48	813F/44-45-48	828F/44-45-48
		716**49-51-55	737**58-60-64	737**58-60-64
-5	699	775F/43-45-49	819F/44-45-49	834F/44-45-49
		719**50-52-56	738**58-60-64	738**58-60-64
-10	700	781F/43-45-49	826F/44-45-49	839F/45-45-49
		723**51-53-57	738**58-60-64	738**58-60-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22/J NONE

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 03 ZPPP

*** FLAPS 01 *** AIR COND AUTO ANTI-ICE OFF

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C 100KG -10 0 10

61

58

55A	554	550*/35-35-37 555**41-42-44	566*/36-36-38 574**46-47-48	571*/36-36-38 580**49-50-51
52A	569	563*/36-37-39 568**42-43-46	580*/37-37-39 587**47-48-50	585*/37-37-39 593**50-50-52
49A	583	576*/38-38-40 581**43-45-47	594*/39-39-41 600**49-50-52	598*/39-39-41 607**50-51-53
46A	597	589*/39-40-42 593**45-47-49	607*/41-41-43 613**50-50-53	612*/41-41-43 620**51-52-54
43A	611	602*/40-41-43 606**46-48-50	620*/42-42-44 626**51-52-54	625*/42-42-44 633**52-53-55
40	625	615*/42-42-45 619**48-50-52	634*/44-44-46 640**52-53-56	640*/44-44-46 647**53-54-56
37	642	630*/43-44-47 634**49-51-54	650*/46-46-48 655**53-54-57	656*/46-46-48 663**54-55-57
34	660	646*/45-46-49 648**49-50-53	666*/47-48-50 672**54-56-58	673*/48-48-50 679**56-57-60
31	676	661*/46-47-50 662**47-49-52	682*/49-49-52 687**55-57-60	689*/49-49-52 695**57-58-61
28	691	670B/47-48-51	696*/50-51-53 700**56-57-60	703*/50-51-53 709**58-60-62
25	703	675B/47-48-52	706*/51-52-55 710**55-57-60	714*/51-52-55 719**58-60-63
22	710	678B/47-49-52	714*/52-53-55 717**55-57-59	721*/52-53-55 727**58-60-63
19	718	682B/47-49-53	721*/52-53-56 724**55-57-59	728*/53-53-56 734**58-60-63
16	724	686B/48-49-53	728*/53-54-57 730**55-57-60	735*/53-54-57 740**59-60-63
13	724	690B/48-50-54	729*/53-54-57 732**56-57-60	736*/53-54-57 742**59-61-64
10	725	693B/49-50-54	731*/53-54-57 734**57-58-61	737*/53-54-57 744**60-62-64
5	725	699B/49-51-55	733*/53-54-57 738**58-59-62	739*/53-54-57 748**61-63-66
0	726	705B/50-52-55	735*/53-54-57 741**59-61-64	741*/53-54-57 751**62-64-67
-5	727	711B/51-52-56	737*/53-54-57 745**60-62-65	743*/54-54-57 754**64-65-68
-10	727	717*/52-53-56	739*/53-54-57 748**62-63-66	745*/54-54-57 757**65-66-69

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

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RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03 108 1680 0 82 1730 0

Engine out procedure: 3000m/9800ft as the separation altitude: if one engine failure occurs below the altitude, continue to climb along 24° magnetic track, after 3000m/9800ft, turn right and flight direct to DJT(P146-01D), follow the ATC's instructions to join route or landing back; if one engine failure occurs above this altitude, according to the SID procedures climb to the safe altitude, follow the ATC's instructions.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

*** FLAPS 01 *** AIR COND AUTO ANTI-ICE OFF

RUNWAY 03/F9 ZPPP

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61

58

55A	554	545*/34-34-36	562*/36-36-38	567*/36-36-38
		548**40-41-43	567**44-45-47	574**45-46-47
52A	569	557*/36-36-38	575*/37-37-39	580*/37-37-39
		561**41-42-44	581**45-46-48	587**46-46-48
49A	583	570*/37-37-40	588*/39-39-41	594*/39-39-41
		573**42-44-46	594**46-47-49	600**48-49-51
46A	597	583*/38-39-41	601*/41-41-43	607*/41-41-43
		586**44-45-48	607**48-49-51	613**50-50-52
43A	611	595*/39-40-43	614*/42-42-44	621*/42-42-44
		598**45-47-50	619**49-50-52	626**50-51-53
40	625	608*/41-42-44	628*/44-44-46	635*/44-44-46
		611**46-48-51	633**50-51-53	640**52-53-55
37	642	623*/42-43-46	643*/46-46-48	650*/46-46-48
		625**47-49-52	648**52-53-55	655**53-54-56
34	660	638*/44-45-48	659*/47-47-50	666*/48-48-50
		640**49-51-54	664**53-55-58	671**55-56-59
31	676	653*/45-46-50	675*/49-49-52	682*/49-49-52
		654**48-50-53	678**55-57-60	687**56-58-60
28	691	666*/46-48-51	688*/50-50-53	696*/50-51-53
		692**56-58-61	700**57-59-62	
25	703	675B/47-48-52	699*/51-51-54	707*/51-52-55
		703**56-58-61	711**57-59-62	
22	710	678B/47-49-52	706*/51-52-55	714*/52-53-55
		710**56-58-61	719**59-61-64	
19	718	682B/47-49-53	714*/52-53-56	721*/53-53-56
		717**56-58-61	726**59-61-64	
16	724	686B/48-49-53	720*/52-53-56	728*/53-54-57
		723**56-58-61	733**59-61-64	
13	724	690B/48-50-54	721*/53-54-57	729*/53-54-57
		725**57-59-62	735**60-62-65	
10	725	693B/49-50-54	723*/53-54-57	731*/53-54-57
		727**57-59-62	737**61-63-66	
5	725	699B/49-51-55	725*/53-54-57	733*/53-54-57
		731**59-61-64	740**62-64-67	
0	726	704*/50-52-55	728*/53-54-57	736*/53-54-57
		734**60-62-65	743**62-64-67	
-5	727	707*/50-52-55	730*/53-54-57	738*/54-54-57
		708**51-53-56	737**61-63-66	746**62-64-67
-10	727	709*/51-52-55	733*/53-54-57	740*/54-54-57
		711**52-54-58	740**61-63-66	749**63-65-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

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 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/F9 108 1680 0 82 1730 0

Engine out procedure:3000m/9800ft as the separation altitude;if one engine failure occurs below the altitude,continue to climb along 24° magnetic track,after 3000m/9800ft,turn right and flight direct to DJT(P146-01D),follow the ATC's instructions to join route or landing back;if one engine failure occurs above this altitude,according to the SID procedures climb to the safe altitude,follow the ATC's instructions.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 04 ZPPP

*** FLAPS 01 *** AIR COND AUTO ANTI-ICE OFF

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61

58

55A	554	623F/36-36-38 580**48-49-51	650F/36-36-38 583**51-52-54	660F/36-36-38 583**51-52-54
52A	569	635F/37-37-39 592**48-50-51	664F/37-37-39 599**53-54-56	674F/37-37-39 599**53-54-56
49A	583	647F/39-39-41 605**49-50-52	677F/39-39-41 614**54-56-58	687F/39-39-41 614**55-56-58
46A	597	660F/40-41-43 617**49-50-52	691F/41-41-43 629**56-58-59	701F/41-41-43 629**56-58-59
43A	611	667T/42-42-44 629**49-51-53	704F/42-42-44 644**58-59-61	715F/42-42-44 644**58-59-61
40	625	674T/43-44-46 639**49-50-52	718F/44-44-46 657**58-60-62	729F/44-44-46 659**60-61-63
37	642	674B/45-46-48 650**48-49-51	734F/46-46-48 670**58-59-61	745F/46-46-48 676**61-63-65
34	660	664B/47-48-50 661**47-48-51	748F/47-48-50 683**57-58-60	761F/48-48-50 689**60-62-64
31	676	666B/47-48-51	758B/49-49-52 695**56-57-60	775F/49-49-52 702**59-61-63
28	691	670B/47-48-51	751B/50-51-53 705**55-56-59	786F/50-51-53 713**58-60-62
25	703	675B/47-48-52	748B/51-52-55 714**55-56-59	787B/51-52-55 722**58-60-62
22	710	678B/47-49-52	749B/52-53-55 720**55-56-59	788B/52-53-55 728**58-60-62
19	718	682B/47-49-53	751B/52-53-56 726**55-56-59	789B/53-53-56 734**58-60-63
16	724	686B/48-49-53	753B/53-54-57 731**55-57-59	792B/53-54-57 740**59-60-63
13	724	690B/48-50-54	760B/53-54-57 733**56-57-60	800B/53-54-57 742**59-61-64
10	725	693B/49-50-54	768B/53-54-57 735**57-58-61	808B/53-54-57 744**60-62-64
5	725	699B/49-51-55	781B/53-54-57 739**58-59-62	823B/53-54-57 748**61-63-66
0	726	705B/50-52-55	795B/53-54-57 742**59-61-63	838B/53-54-57 751**62-64-67
-5	727	711B/51-52-56	810B/53-54-57 746**60-62-65	846F/54-54-57 755**64-65-68
-10	727	718B/52-53-56	825B/53-54-57 750**61-63-66	853F/54-54-57 758**65-67-70

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 04 NONE

Engine out procedure: 2700m/8900ft as the separation altitude: if one engine failure occurs below the altitude, continue climb along the 54° magnetic track, after 2700m/8900ft, flight direct to DJT then follow the ATC instructions to join route or landing back; if one engine failure occurs above this separation altitude, according to the SID procedure climb to the safe altitude, follow the ATC's instructions

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

*** FLAPS 01 *** AIR COND AUTO ANTI-ICE OFF

RUNWAY 04/C9 ZPPP

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C 100KG -10 0 10

61

58

55A 554 609F/36-36-38 637F/36-36-38 647F/36-36-38

580**48-49-51 583**51-52-54 583**51-52-54

52A 569 621F/37-37-39 650F/37-37-39 660F/37-37-39

592**48-50-51 599**53-54-56 599**53-54-56

49A 583 633F/39-39-41 663F/39-39-41 673F/39-39-41

605**49-50-52 614**54-56-58 614**55-56-58

46A 597 644F/40-41-43 677F/41-41-43 687F/41-41-43

617**49-50-52 629**56-58-59 629**56-58-59

43A 611 656F/42-42-44 690F/42-42-44 700F/42-42-44

629**49-51-53 644**58-59-61 644**58-59-61

40 625 669F/43-44-46 704F/44-44-46 714F/44-44-46

639**49-50-52 657**58-60-62 659**60-61-63

37 642 674B/45-46-48 719F/46-46-48 730F/46-46-48

650**48-49-51 670**58-59-61 676**61-63-65

34 660 664B/47-48-50 734F/47-48-50 746F/48-48-50

661**47-48-51 683**57-58-60 689**60-62-64

31 676 666B/47-48-51 747F/49-49-52 760F/49-49-52

695**56-57-60 702**59-61-63

28 691 670B/47-48-51 751B/50-51-53 772F/50-51-53

705**55-56-59 713**58-60-62

25 703 675B/47-48-52 748B/51-52-55 781F/51-52-55

714**55-56-59 722**58-60-62

22 710 678B/47-49-52 749B/52-53-55 788B/52-53-55

720**55-56-59 728**58-60-62

19 718 682B/47-49-53 751B/52-53-56 789B/53-53-56

726**55-56-59 734**58-60-63

16 724 686B/48-49-53 753B/53-54-57 792B/53-54-57

731**55-57-59 740**59-60-63

13 724 690B/48-50-54 760B/53-54-57 800B/53-54-57

733**56-57-60 742**59-61-64

10 725 693B/49-50-54 768B/53-54-57 808B/53-54-57

735**57-58-61 744**60-62-64

5 725 699B/49-51-55 781B/53-54-57 817F/53-54-57

739**58-59-62 748**61-63-66

0 726 705B/50-52-55 795B/53-54-57 823F/53-54-57

742**59-61-63 751**62-64-67

-5 727 711B/51-52-56 810B/53-54-57 830F/54-54-57

746**60-62-65 755**64-65-68

-10 727 718B/52-53-56 821F/53-54-57 837F/54-54-57

750**61-63-66 758**65-67-70

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4280 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
04/C9 NONE

Engine out procedure: 2700m/8900ft as the separation altitude: if one engine failure occurs below the altitude, continue climb along the 54° magnetic track, after 2700m/8900ft, flight direct to DJT then follow the ATC instructions to join route or landing back; if one engine failure occurs above this separation altitude, according to the SID procedure climb to the safe altitude, follow the ATC's instructions

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 21

ZPPP

*** FLAPS 01 *** AIR COND AUTO ANTI-ICE OFF					CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26					DATED 07-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10	
61	58				
55A	554	589F/36-36-38	618F/36-36-38	627F/36-36-38	
		572**44-45-46	583**51-52-54	583**51-52-54	
52A	569	601F/37-37-39	630F/37-37-39	640F/37-37-39	
		585**45-45-47	598**52-53-55	599**53-54-56	
49A	583	612F/39-39-41	643F/39-39-41	652F/39-39-41	
		598**45-46-48	611**53-54-56	614**55-56-58	
46A	597	624F/40-41-43	656F/41-41-43	665F/41-41-43	
		611**46-47-49	624**54-55-57	629**56-57-59	
43A	611	635F/42-42-44	668F/42-42-44	678F/42-42-44	
		624**47-48-50	638**55-56-58	642**57-58-60	
40	625	647F/43-44-46	681F/44-44-46	692F/44-44-46	
		637**48-49-51	652**56-57-59	656**58-59-61	
37	642	660F/45-46-48	695F/46-46-48	707F/46-46-48	
		650**48-49-52	668**56-58-60	672**59-60-63	
34	660	664B/47-48-50	710F/47-48-50	722F/48-48-50	
		661**47-48-51	683**57-58-60	689**60-61-64	
31	676	666B/47-48-51	724F/49-49-52	736F/49-49-52	
		695**56-57-60	702**59-61-63		
28	691	671B/47-48-51	736F/50-51-53	749F/50-51-53	
		705**55-57-59	713**59-60-62		
25	703	675B/47-48-52	746F/51-52-55	759F/51-52-55	
		714**55-56-59	722**58-60-62		
22	710	679B/47-49-52	750B/52-53-55	767F/52-53-55	
		720**55-56-59	728**58-60-62		
19	718	683B/48-49-53	751B/52-53-56	774F/53-53-56	
		726**55-56-59	734**58-60-63		
16	724	687B/48-50-53	754B/53-54-57	781F/53-54-57	
		731**55-57-59	740**59-60-63		
13	724	690B/48-50-54	761B/53-54-57	785F/53-54-57	
		733**56-57-60	742**59-61-64		
10	725	693B/49-50-54	769B/53-54-57	788F/53-54-57	
		736**57-58-61	744**60-62-64		
5	725	699B/49-51-55	780F/53-54-57	794F/53-54-57	
		739**58-59-62	748**61-63-66		
0	726	705B/50-52-55	786F/53-54-57	800F/54-54-57	
		743**59-61-63	751**63-64-67		
-5	727	712B/51-52-56	792F/53-54-57	807F/54-54-57	
		746**60-62-65	755**64-65-68		
-10	727	718B/52-53-56	798F/54-54-57	814F/54-54-57	
		750**62-63-66	758**65-67-70		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 21/F2 ZPPP

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61	55A	554	574F/36-36-38	604F/36-36-38	613F/36-36-38
58			565**40-41-43	578**48-48-50	582**50-51-53
52A	569	586F/37-37-39	616F/37-37-39	626F/37-37-39	
		578**41-42-44	592**49-49-51	596**51-52-54	
49A	583	597F/39-39-41	628F/39-39-41	638F/39-39-41	
		590**42-42-44	605**49-50-52	609**52-53-55	
46A	597	608F/40-41-43	640F/41-41-43	651F/41-41-43	
		603**43-43-45	618**50-51-53	622**53-54-56	
43A	611	619F/42-42-44	651F/42-42-44	663F/42-42-44	
		615**44-44-46	631**51-52-54	636**54-54-57	
40	625	631F/43-44-46	664F/44-44-46	676F/44-44-46	
		628**44-45-47	645**52-53-55	650**55-55-58	
37	642	643F/45-46-48	677F/46-46-48	689F/46-46-48	
			660**53-54-56	665**55-56-58	
34	660	657F/46-47-50	692F/47-48-50	704F/48-48-50	
			676**54-55-57	682**56-57-60	
31	676	666B/47-48-51	705F/49-49-52	718F/49-49-52	
			691**54-55-58	697**57-58-61	
28	691	671B/47-48-51	718F/50-51-53	730F/50-51-53	
			705**55-56-59	711**58-59-61	
25	703	675B/47-48-52	727F/51-52-55	740F/51-52-55	
			714**55-56-59	722**58-60-62	
22	710	679B/47-49-52	735F/52-53-55	748F/52-53-55	
			720**55-56-59	728**58-60-62	
19	718	683B/48-49-53	743F/52-53-56	756F/53-53-56	
			726**55-56-59	734**58-60-63	
16	724	687B/48-50-53	750F/53-54-57	763F/53-54-57	
			731**55-57-59	740**59-60-63	
13	724	690B/48-50-54	753F/53-54-57	767F/53-54-57	
			733**56-57-60	742**59-61-64	
10	725	693B/49-50-54	757F/53-54-57	770F/53-54-57	
			736**57-58-61	744**60-62-64	
5	725	699B/49-51-55	762F/53-54-57	776F/53-54-57	
			739**58-59-62	748**61-63-66	
0	726	705B/50-52-55	768F/53-54-57	782F/54-54-57	
-5	727	712B/51-52-56	743**59-61-63	751**63-64-67	
-10	727	718B/52-53-56	775F/53-54-57	789F/54-54-57	
			746**60-62-65	755**64-65-68	
			781F/54-54-57	795F/54-54-57	
			750**62-63-66	758**65-67-70	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21/F2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22

ZPPP

*** FLAPS 01 *** AIR COND AUTO ANTI-ICE OFF					CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26					DATED 07-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10	
61	58				
55A	554	620F/36-36-38	647F/36-36-38	657F/36-36-38	
		580**48-49-51	583**51-52-54	583**51-52-54	
52A	569	633F/37-37-39	661F/37-37-39	671F/37-37-39	
		592**49-50-51	599**53-54-56	599**53-54-56	
49A	583	646F/39-39-41	674F/39-39-41	685F/39-39-41	
		605**49-50-52	614**55-56-58	614**55-56-58	
46A	597	658F/40-41-43	688F/41-41-43	698F/41-41-43	
		617**49-50-52	629**56-58-59	629**56-58-59	
43A	611	667T/42-42-44	701F/42-42-44	712F/42-42-44	
		629**50-51-53	644**58-59-61	644**58-59-61	
40	625	674T/43-44-46	715F/44-44-46	726F/44-44-46	
		639**49-50-52	657**58-60-62	659**60-61-63	
37	642	674B/45-46-48	731F/46-46-48	742F/46-46-48	
		650**48-49-52	670**58-59-61	676**61-63-65	
34	660	664B/47-48-50	747F/47-48-50	758F/48-48-50	
		661**47-48-51	683**57-58-60	689**60-62-64	
31	676	666B/47-48-51	758B/49-49-52	773F/49-49-52	
		695**56-57-60	702**59-61-63		
28	691	671B/47-48-51	752B/50-51-53	785F/50-51-53	
		705**55-57-59	713**59-60-62		
25	703	675B/47-48-52	749B/51-52-55	788B/51-52-55	
		714**55-56-59	722**58-60-62		
22	710	679B/47-49-52	750B/52-53-55	789B/52-53-55	
		720**55-56-59	728**58-60-62		
19	718	683B/48-49-53	751B/52-53-56	790B/53-53-56	
		726**55-56-59	734**58-60-63		
16	724	687B/48-50-53	754B/53-54-57	793B/53-54-57	
		731**55-57-59	740**59-60-63		
13	724	690B/48-50-54	761B/53-54-57	801B/53-54-57	
		733**56-57-60	742**59-61-64		
10	725	693B/49-50-54	769B/53-54-57	809B/53-54-57	
		736**57-58-61	744**60-62-64		
5	725	699B/49-51-55	782B/53-54-57	824B/53-54-57	
		739**58-59-62	748**61-63-66		
0	726	705B/50-52-55	796B/53-54-57	837F/54-54-57	
-5	727	712B/51-52-56	743**59-61-63	751**63-64-67	
-10	727	718B/52-53-56	811B/53-54-57	844F/54-54-57	
		746**60-62-65	755**64-65-68		
		826B/54-54-57	851F/54-54-57		
		750**62-63-66	758**65-67-70		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22/C2 ZPPP

*** FLAPS 01 ***	AIR COND AUTO	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800	CFM56-7B26		DATED 07-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10
61			
58			
55A 554	574F/36-36-38	604F/36-36-38	613F/36-36-38
	565**40-41-43	578**48-48-50	582**50-51-53
52A 569	586F/37-37-39	616F/37-37-39	626F/37-37-39
	578**41-42-44	592**49-49-51	596**51-52-54
49A 583	597F/39-39-41	628F/39-39-41	638F/39-39-41
	590**42-42-44	605**49-50-52	609**52-53-55
46A 597	608F/40-41-43	640F/41-41-43	651F/41-41-43
	603**43-43-45	618**50-51-53	622**53-54-56
43A 611	619F/42-42-44	651F/42-42-44	663F/42-42-44
	615**44-44-46	631**51-52-54	636**54-54-57
40 625	631F/43-44-46	664F/44-44-46	676F/44-44-46
	628**44-45-47	645**52-53-55	650**55-55-58
37 642	643F/45-46-48	677F/46-46-48	689F/46-46-48
		660**53-54-56	665**55-56-58
34 660	657F/46-47-50	692F/47-48-50	704F/48-48-50
		676**54-55-57	682**56-57-60
31 676	666B/47-48-51	705F/49-49-52	718F/49-49-52
		691**54-55-58	697**57-58-61
28 691	671B/47-48-51	718F/50-51-53	730F/50-51-53
		705**55-56-59	711**58-59-61
25 703	675B/47-48-52	727F/51-52-55	740F/51-52-55
		714**55-56-59	722**58-60-62
22 710	679B/47-49-52	735F/52-53-55	748F/52-53-55
		720**55-56-59	728**58-60-62
19 718	683B/48-49-53	743F/52-53-56	756F/53-53-56
		726**55-56-59	734**58-60-63
16 724	687B/48-50-53	750F/53-54-57	763F/53-54-57
		731**55-57-59	740**59-60-63
13 724	690B/48-50-54	753F/53-54-57	767F/53-54-57
		733**56-57-60	742**59-61-64
10 725	693B/49-50-54	757F/53-54-57	770F/53-54-57
		736**57-58-61	744**60-62-64
5 725	699B/49-51-55	762F/53-54-57	776F/53-54-57
		739**58-59-62	748**61-63-66
0 726	705B/50-52-55	768F/53-54-57	782F/54-54-57
		743**59-61-63	751**63-64-67
-5 727	712B/51-52-56	775F/53-54-57	789F/54-54-57
		746**60-62-65	755**64-65-68
-10 727	718B/52-53-56	781F/54-54-57	795F/54-54-57
		750**62-63-66	758**65-67-70

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22/C2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22/J ZPPP

*** FLAPS 01 *** AIR COND AUTO ANTI-ICE OFF					CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26					DATED 07-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10	
61	58				
55A	554	589F/36-36-38	618F/36-36-38	627F/36-36-38	
		572**44-45-46	583**51-52-54	583**51-52-54	
52A	569	601F/37-37-39	630F/37-37-39	640F/37-37-39	
		585**45-45-47	598**52-53-55	599**53-54-56	
49A	583	612F/39-39-41	643F/39-39-41	652F/39-39-41	
		598**45-46-48	611**53-54-56	614**55-56-58	
46A	597	624F/40-41-43	656F/41-41-43	665F/41-41-43	
		611**46-47-49	624**54-55-57	629**56-57-59	
43A	611	635F/42-42-44	668F/42-42-44	678F/42-42-44	
		624**47-48-50	638**55-56-58	642**57-58-60	
40	625	647F/43-44-46	681F/44-44-46	692F/44-44-46	
		637**48-49-51	652**56-57-59	656**58-59-61	
37	642	660F/45-46-48	695F/46-46-48	707F/46-46-48	
		650**48-49-52	668**56-58-60	672**59-60-63	
34	660	664B/47-48-50	710F/47-48-50	722F/48-48-50	
		661**47-48-51	683**57-58-60	689**60-61-64	
31	676	666B/47-48-51	724F/49-49-52	736F/49-49-52	
		695**56-57-60	702**59-61-63		
28	691	671B/47-48-51	736F/50-51-53	749F/50-51-53	
		705**55-57-59	713**59-60-62		
25	703	675B/47-48-52	746F/51-52-55	759F/51-52-55	
		714**55-56-59	722**58-60-62		
22	710	679B/47-49-52	750B/52-53-55	767F/52-53-55	
		720**55-56-59	728**58-60-62		
19	718	683B/48-49-53	751B/52-53-56	774F/53-53-56	
		726**55-56-59	734**58-60-63		
16	724	687B/48-50-53	754B/53-54-57	781F/53-54-57	
		731**55-57-59	740**59-60-63		
13	724	690B/48-50-54	761B/53-54-57	785F/53-54-57	
		733**56-57-60	742**59-61-64		
10	725	693B/49-50-54	769B/53-54-57	788F/53-54-57	
		736**57-58-61	744**60-62-64		
5	725	699B/49-51-55	780F/53-54-57	794F/53-54-57	
		739**58-59-62	748**61-63-66		
0	726	705B/50-52-55	786F/53-54-57	800F/54-54-57	
-5	727	712B/51-52-56	743**59-61-63	751**63-64-67	
-10	727	718B/52-53-56	792F/53-54-57	807F/54-54-57	
		746**60-62-65	755**64-65-68		
		798F/54-54-57	814F/54-54-57		
		750**62-63-66	758**65-67-70		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22/J NONE

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 5220 FT

RUNWAY 02

ZPWS

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

PUZHEHEIJICHANG

WS/SOUTHWEST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61

58A	562	504F/22-23-27	537F/27-27-31	549F/29-29-32
55A	576	514F/23-24-28	547F/28-28-32	559F/30-30-33
52A	591	524F/24-25-30	558F/29-29-33	570F/31-31-34
49A	605	533F/25-26-31	568F/30-30-34	580F/32-32-36
46A	620	543F/26-27-32	578F/31-31-36	590F/33-33-37
43	635	553F/26-28-33	589F/32-33-37	601F/34-34-38
40	651	564F/27-29-35	600F/33-34-38	613F/35-35-40
37	669	575F/28-30-36	612F/34-35-40	625F/36-36-41
34	686	585F/29-31-37	623F/35-36-41	636F/37-38-43
31	701	593F/30-32-38	634F/36-37-42	647F/38-39-44
28	712	601F/30-33-39	642F/37-38-43	656F/39-39-45
25	721	607F/31-33-40	649F/37-38-44	663F/39-40-45
22	729	613F/32-34-41	656F/38-39-45	670F/40-41-46
19	735	618F/32-34-41	662F/38-40-46	676F/40-41-47
16	736	621F/32-35-42	665F/39-40-46	679F/41-42-47
13	736	624F/33-35-42	668F/39-40-46	682F/41-42-47
10	736	627F/33-36-42	671F/40-41-46	686F/42-42-48
5	737	633F/34-36-43	676F/40-41-47	691F/42-43-48
0	738	638F/35-37-43	682F/41-42-47	697F/43-44-49
-5	739	644F/36-38-44	688F/42-43-48	703F/44-44-49
-10	739	649F/36-38-44	693F/43-43-48	709F/45-45-50

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.14 PERCENT FOR TODA AND -0.65 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 5220 FT

RUNWAY 20 ZPWS

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	PUZHEHEIJICHANG WS/SOUTHWEST	
737-800	CFM56-7B26		DATED 10-JUN-2019	
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	
61			10	
58A	562	497F/22-22-26	529F/26-26-30	540F/28-28-31
55A	576	506F/23-23-27	539F/27-27-31	550F/29-29-32
52A	591	516F/24-24-29	549F/28-28-32	561F/30-30-34
49A	605	525F/24-25-30	559F/29-29-34	571F/31-31-35
46A	620	535F/25-26-31	569F/30-30-35	581F/32-32-36
43	635	545F/26-27-32	580F/31-31-36	592F/33-33-37
40	651	556F/27-28-34	591F/32-32-38	603F/34-34-39
37	669	567F/28-29-35	603F/34-34-39	615F/35-35-40
34	686	577F/29-30-37	614F/35-35-40	627F/36-36-42
31	701	586F/29-31-38	624F/36-36-42	637F/37-37-43
28	712	593F/30-32-39	633F/36-37-42	645F/38-38-44
25	721	600F/31-32-39	639F/37-37-43	652F/39-39-45
22	729	605F/31-33-40	646F/38-38-44	659F/40-40-45
19	735	611F/32-33-41	651F/38-39-45	665F/40-40-46
16	736	614F/32-34-41	654F/39-39-45	668F/40-40-46
13	736	617F/33-34-41	657F/39-39-45	672F/41-41-46
10	736	620F/33-35-41	661F/39-40-45	675F/41-41-47
5	737	625F/34-35-42	666F/40-40-46	680F/42-42-47
0	738	630F/35-36-43	671F/41-41-46	686F/42-42-48
-5	739	635F/35-36-43	677F/41-41-47	691F/43-43-48
-10	739	640F/36-37-44	682F/42-42-47	697F/44-44-49

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 620 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.65 PERCENT FOR TODA AND 0.14 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20 315 6390 0 312 6545 0 384 6778 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 05

ZSAM

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

GAOQI JICHANG

XM/EASTERN CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	650	703F/39-40-43	744F/40-40-43	758F/40-40-43
		677**49-51-54	683**53-55-58	683**53-55-58
58A	666	716F/40-41-45	758F/41-41-45	773F/41-41-45
		692**50-52-55	700**54-56-59	700**54-56-59
55A	682	730F/42-43-47	772F/42-43-47	787F/43-43-47
		707**50-53-56	717**56-58-61	717**56-58-61
52	700	745F/43-44-48	788F/44-44-48	804F/44-44-48
		723**51-54-57	736**57-60-63	736**57-60-63
49	719	761F/45-46-50	805F/45-46-50	820F/46-46-50
		740**51-54-58	756**59-62-65	756**59-62-65
46	739	776F/46-48-52	822F/47-48-52	838F/47-48-52
		755**51-54-58	776**60-64-67	777**61-64-67
43	758	790F/47-50-54	838F/48-50-54	854F/48-50-54
		767**50-53-57	790**59-62-66	790**59-62-66
40	778	784B/49-51-56	854F/50-51-56	862F/50-51-56
		779**49-52-56	790**53-56-60	790**54-56-60
37	798	786B/49-52-57	862F/50-52-57	862F/50-52-57
34	818	793B/49-52-57	862F/50-52-57	862F/50-52-57
31	839	804B/48-52-57	862F/49-52-57	862F/49-52-57
28	847	813B/48-52-58	862F/49-52-58	862F/49-52-58
25	848	821B/48-52-58	862F/49-52-58	862F/49-52-58
22	849	829B/48-52-58	862F/49-52-58	862F/49-52-58
19	850	837B/48-52-58	862F/49-52-58	862F/49-52-58
16	851	845B/48-51-58	862F/49-51-58	862F/49-51-58
13	852	853B/48-51-58	862F/49-51-58	862F/49-51-58
10	853	862B/48-51-58	862F/49-51-58	862F/49-51-58
5	854	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	855	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	857	862F/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 05/A2 ZSAM

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	GAOQIJICHANG XM/EASTERN CHINA DATED 10-JUN-2019
737-800		CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10	0	10
61A	650	685F/39-40-43	725F/40-40-43	740F/40-40-43	
		668**45-47-50	683**53-55-58	683**53-55-58	
58A	666	698F/40-41-45	739F/41-41-45	754F/41-41-45	
		682**46-48-51	700**54-56-59	700**54-56-59	
55A	682	711F/42-43-47	753F/42-43-47	768F/43-43-47	
		697**47-49-52	716**55-58-61	717**56-58-61	
52	700	725F/43-44-48	769F/44-44-48	784F/44-44-48	
		713**48-50-53	733**56-58-62	736**57-60-63	
49	719	740F/45-46-50	785F/45-46-50	800F/46-46-50	
		731**48-50-54	751**56-59-63	756**59-62-65	
46	739	756F/46-48-52	801F/47-48-52	817F/47-48-52	
		748**49-51-55	769**57-60-63	775**60-63-66	
43	758	771F/47-50-54	818F/48-50-54	834F/48-50-54	
		765**49-52-56	787**58-61-64	790**59-62-66	
40	778	784F/49-51-56	834F/50-51-56	851F/50-51-56	
		779**49-52-56	790**53-56-60	790**54-56-60	
37	798	786B/49-52-57	850F/50-52-57	862F/50-52-57	
34	818	793B/49-52-57	862F/50-52-57	862F/50-52-57	
31	839	804B/48-52-57	862F/49-52-57	862F/49-52-57	
28	847	813B/48-52-58	862F/49-52-58	862F/49-52-58	
25	848	821B/48-52-58	862F/49-52-58	862F/49-52-58	
22	849	829B/48-52-58	862F/49-52-58	862F/49-52-58	
19	850	837B/48-52-58	862F/49-52-58	862F/49-52-58	
16	851	845B/48-51-58	862F/49-51-58	862F/49-51-58	
13	852	853F/48-51-58	862F/49-51-58	862F/49-51-58	
10	853	857F/48-51-58	862F/49-51-58	862F/49-51-58	
5	854	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	855	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	856	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	857	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3220 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

05/A2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 05/A3 ZSAM

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

GAOQI JICHANG

XM/EASTERN CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	WIND	COMPONENT	IN KNOTS	(MINUS)	DENOTES	TAILWIND
C	100KG	-10	0	10			
61A	650	644F/38-39-43	685F/40-40-43	700F/40-40-43			
			668**46-47-50	675**49-50-53			
58A	666	656F/39-40-44	698F/41-41-45	713F/41-41-45			
			683**47-48-51	690**50-51-54			
55A	682	668F/40-41-45	711F/42-43-47	726F/43-43-47			
			697**48-49-52	704**50-52-55			
52	700	682F/41-42-47	726F/44-44-48	741F/44-44-48			
			713**48-50-53	721**51-53-56			
49	719	696F/42-44-48	741F/45-46-50	756F/46-46-50			
			731**49-50-54	738**52-53-57			
46	739	710F/43-45-50	756F/47-48-52	772F/47-48-52			
			748**50-51-55	756**52-54-58			
43	758	725F/44-46-51	771F/48-50-54	788F/48-50-54			
			765**50-52-56	773**53-55-59			
40	778	739F/45-47-53	787F/50-51-56	804F/50-51-56			
			783**51-53-57	790**54-56-60			
37	798	752F/45-48-54	803F/50-52-57	820F/50-52-57			
34	818	765F/46-49-55	817F/50-52-57	835F/50-52-57			
31	839	779F/47-50-57	832F/49-52-57	850F/49-52-57			
28	847	786F/47-51-57	839F/49-52-58	858F/49-52-58			
25	848	790F/48-51-58	844F/49-52-58	862F/49-52-58			
22	849	793F/48-52-58	848F/49-52-58	862F/49-52-58			
19	850	797F/48-52-58	852F/49-52-58	862F/49-52-58			
16	851	801F/48-51-58	856F/49-51-58	862F/49-51-58			
13	852	805F/48-51-58	861F/49-51-58	862F/49-51-58			
10	853	809F/48-51-58	862F/49-51-58	862F/49-51-58			
5	854	816F/48-51-58	862F/49-51-58	862F/49-51-58			
0	855	823F/48-51-58	862F/49-51-58	862F/49-51-58			
-5	856	829F/48-51-58	862F/49-51-58	862F/49-51-58			
-10	857	836F/48-51-58	862F/49-51-58	862F/49-51-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF

75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2850 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

05/A3 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 23 ZSAM

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

GAOQIJICHANG
XM/EASTERN CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	650	612*/34-35-39	630*/37-37-41	636*/38-38-42	
		627**45-47-51	647**48-50-54	654**49-51-54	
58A	666	626*/36-37-41	644*/39-39-43	650*/40-40-43	
		642**46-49-53	662**50-52-55	669**51-53-56	
55A	682	641*/37-38-43	660*/40-40-45	666*/41-41-45	
		656**48-51-55	678**51-53-57	685**52-54-58	
52	700	657*/39-40-45	676*/42-42-46	683*/43-43-47	
		673**49-52-57	695**53-55-59	702**54-56-60	
49	719	674*/40-41-46	694*/43-44-48	701*/44-44-49	
		690**51-54-58	713**54-57-61	720**55-58-62	
46	739	692*/41-43-48	712*/44-45-50	719*/45-46-50	
		707**52-56-60	731**56-58-63	739**57-59-63	
43	758	709*/43-45-50	730*/46-47-52	737*/47-47-52	
		724**53-57-62	748**57-60-65	756**58-61-65	
40	778	727*/44-46-52	748*/47-48-53	755*/48-49-54	
		741**54-58-63	766**58-62-66	775**60-63-67	
37	798	745*/45-48-53	766*/48-50-55	774*/49-51-56	
		757**53-57-62	784**60-64-68	790**57-60-65	
34	818	762*/46-49-55	785*/50-52-57	793*/50-52-57	
		772**52-56-61	790**52-54-59		
31	839	781*/48-51-57	803*/49-52-57	810*/50-52-57	
		787**51-54-60			
28	847	789*/48-51-57	810*/49-52-58	818*/50-52-58	
		790**49-52-58			
25	848	790*/48-52-58	812*/49-52-58	819*/50-52-58	
22	849	792*/48-52-58	813*/49-52-58	820*/50-52-58	
19	850	793*/48-52-58	814*/49-52-58	822*/50-52-58	
16	851	794*/48-51-58	816*/49-51-58	823*/50-51-58	
13	852	795*/48-51-58	817*/49-51-58	824*/50-51-58	
10	853	796*/48-51-58	818*/49-51-58	826*/50-51-58	
5	854	798*/48-51-58	820*/49-51-58	828*/50-51-58	
0	855	800*/48-51-58	822*/49-51-58	829*/50-51-58	
-5	856	801*/48-51-58	824*/49-51-58	831*/50-51-58	
-10	857	802*/48-51-58	825*/49-51-58	832*/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 610 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
23	43	848	0	49	973	0	72	1296	0
	85	1340	0	269	3470	0	384	6020	0
	210	11869	0	387	6131	0	135	2728	0
	128	2641	0	243	4775	0	226	3950	0
	226	3756	0	95	1710	0	128	2532	0
	269	4077	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 23/A9 ZSAM

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

GAOQI JICHANG

XM/EASTERN CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	WIND	COMPONENT	IN KNOTS	(MINUS)	DENOTES	TAILWIND
C	100KG	-10	0	10			
61A	650	609*/34-35-39	627*/37-37-41	633*/38-38-42			
		624**44-47-51	644**48-50-53	651**49-51-54			
58A	666	623*/35-36-41	642*/38-38-43	648*/39-39-43			
		638**46-49-53	659**49-51-55	666**50-52-56			
55A	682	638*/37-38-42	657*/40-40-44	663*/41-41-45			
		652**47-50-54	674*/51-53-57	681**52-54-57			
52	700	654*/38-39-44	673*/41-42-46	680*/42-42-47			
		668**49-52-56	691**52-55-59	698**53-55-59			
49	719	671*/40-41-46	691*/43-43-48	698*/44-44-48			
		685**49-53-57	709**54-56-60	716**55-57-61			
46	739	688*/41-43-48	709*/44-45-50	716*/45-46-50			
		702**50-53-58	727**55-58-62	735**56-59-63			
43	758	706*/42-44-50	727*/45-46-51	734*/46-47-52			
		718**50-54-59	744**56-60-64	752**58-61-65			
40	778	723*/44-46-51	745*/47-48-53	752*/48-49-54			
		735**51-54-60	762**58-61-66	770**59-62-67			
37	798	741*/45-47-53	763*/48-50-55	770*/49-50-55			
		751**51-55-60	780**59-63-67	788**60-64-69			
34	818	758*/46-49-55	782*/49-51-57	789*/50-52-57			
		768**52-56-61	790**53-56-61	790**51-52-58			
31	839	777*/47-50-56	800*/49-52-57	807*/50-52-57			
		784**51-55-61					
28	847	784*/48-51-57	807*/49-52-58	814*/50-52-58			
		790**51-55-60					
25	848	786*/48-51-57	808*/49-52-58	816*/50-52-58			
		790**50-53-59					
22	849	787*/48-51-57	810*/49-52-58	817*/50-52-58			
		790**49-53-59					
19	850	789*/48-51-58	811*/49-52-58	818*/50-52-58			
		790**49-52-58					
16	851	790*/48-51-58	812*/49-51-58	820*/50-51-58			
13	852	791*/48-51-58	813*/49-51-58	821*/50-51-58			
10	853	792*/48-51-58	815*/49-51-58	822*/50-51-58			
5	854	794*/48-51-58	817*/49-51-58	824*/50-51-58			
0	855	796*/48-51-58	819*/49-51-58	826*/50-51-58			
-5	856	798*/48-51-58	820*/49-51-58	828*/50-51-58			
-10	857	799*/48-51-58	821*/49-51-58	829*/50-51-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 610 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3100 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY			RUNWAY SLOPES ARE 0.20 PERCENT FOR TODA AND 0.20 PERCENT FOR ASDA			LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
	HT	DIST	OFFSET	HT	DIST	OFFSET	
23/A9	43	848	0	49	973	0	72 1296 0
	85	1340	0	269	3470	0	384 6020 0
	210	11869	0	387	6131	0	135 2728 0
	128	2641	0	243	4775	0	226 3950 0
	226	3756	0	95	1710	0	128 2532 0
	269	4077	0				

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 144 FT

RUNWAY 03

ZSCN

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	CHANGBEIJICHANG NC/NORTH CHINA	
737-800	CFM56-7B26		DATED 10-JUN-2019	
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10 0 10		
61A	648	651*/40-40-43 665**49-50-54	666*/40-40-43 681**54-54-57	671*/40-40-43 681**54-54-57
58A	664	666*/41-41-45 679**50-51-55	682*/41-41-45 698**55-56-59	687*/41-41-45 698**55-56-59
55A	680	681*/43-43-46 695**51-52-55	698*/43-43-46 715**57-58-61	703*/43-43-46 715**57-58-61
52	698	698*/44-44-48 711**51-53-56	716*/44-44-48 734**58-60-63	721*/44-44-48 734**59-60-63
49	717	716*/46-46-50 728**52-54-57	734*/46-46-50 753**60-61-65	740*/46-46-50 754**60-62-65
46	736	735*/47-48-52 744**52-53-57	754*/48-48-52 772**61-62-66	759*/48-48-52 775**62-64-67
43	756	753*/48-49-54 758**50-52-56	773*/49-49-54 789**61-63-66	778*/49-49-54 790**61-63-67
40	775	771B/49-51-55	791*/51-51-56 790**55-56-60	797*/51-51-56 790**55-56-60
37	796	776B/49-51-56	810*/52-52-57	816*/52-52-57
34	815	782B/49-51-57	827*/51-52-57	833*/51-52-57
31	836	788B/49-51-57	844*/50-52-57	851*/50-52-57
28	846	794B/49-52-58	852*/50-52-58	859*/50-52-58
25	847	802B/49-52-58	854*/50-52-58	861*/50-52-58
22	848	810B/49-52-58	855*/50-52-58	862F/50-52-58
19	849	818B/49-52-58	857*/50-52-58	862F/50-52-58
16	850	826B/49-52-58	858*/50-52-58	862F/50-52-58
13	850	834B/49-52-58	860*/50-52-58	862F/50-52-58
10	851	840*/49-51-58	861*/50-51-58	862F/50-51-58
5	853	842*/49-51-58	862F/50-51-58	862F/50-51-58
0	854	844*/49-51-58	862F/50-51-58	862F/50-51-58
-5	855	846*/49-51-58	862F/50-51-58	862F/50-51-58
-10	855	848*/49-51-58	862F/50-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.30 PERCENT FOR TODA AND -0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 92 1949 0 98 1939 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 144 FT

RUNWAY 21 ZSCN

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	CHANGBEIJICHANG NC/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 648	702F/39-40-43 744F/39-40-43 758F/40-40-43 676**49-51-54 681**52-54-57 681**53-54-57		
58A 664	716F/40-41-45 758F/41-41-45 772F/41-41-45 690**50-52-55 698**54-56-59 698**54-56-59		
55A 680	729F/41-43-46 772F/42-43-46 787F/42-43-46 706**50-53-56 715**55-58-61 715**55-58-61		
52 698	744F/43-44-48 788F/44-44-48 803F/44-44-48 722**51-54-57 734**57-60-63 734**57-60-63		
49 717	760F/44-46-50 804F/45-46-50 820F/45-46-50 739**51-54-58 754**59-62-65 754**59-62-65		
46 736	776F/46-48-52 821F/46-48-52 837F/47-48-52 753**51-54-58 775**60-64-67 775**60-64-67		
43 756	789F/47-49-54 838F/48-49-54 854F/48-49-54 765**50-53-57 790**60-63-67 790**60-63-67		
40 775	782B/48-51-56 853F/49-51-56 862F/50-51-56 777**49-52-56 790**54-56-60 790**54-56-60		
37 796	784B/49-52-57 862F/50-52-57 862F/50-52-57		
34 815	790B/48-52-57 862F/50-52-57 862F/50-52-57		
31 836	800B/48-52-57 862F/49-52-57 862F/49-52-57		
28 846	809B/48-52-58 862F/49-52-58 862F/49-52-58		
25 847	817B/48-52-58 862F/49-52-58 862F/49-52-58		
22 848	825B/48-52-58 862F/49-52-58 862F/49-52-58		
19 849	833B/48-52-58 862F/49-52-58 862F/49-52-58		
16 850	841B/48-52-58 862F/49-52-58 862F/49-52-58		
13 850	849B/48-52-58 862F/49-52-58 862F/49-52-58		
10 851	858B/48-51-58 862F/49-51-58 862F/49-51-58		
5 853	862F/48-51-58 862F/49-51-58 862F/49-51-58		
0 854	862F/48-51-58 862F/49-51-58 862F/49-51-58		
-5 855	862F/48-51-58 862F/49-51-58 862F/49-51-58		
-10 855	862F/48-51-58 862F/49-51-58 862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.30 PERCENT FOR TODA AND -0.30 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 49 FT

RUNWAY 03 ZSFZ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				CHANGLEJICHANG FZ/NORTH CHINA
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	650	715F/39-40-43 682**52-54-57	750F/40-40-43 683**53-55-58	762F/40-40-43 683**53-55-58
58A	666	729F/41-41-45 697**53-55-58	765F/41-41-45 700**55-56-59	777F/41-41-45 700**55-56-59
55A	682	743F/42-43-47 712**53-55-59	780F/43-43-47 717**56-58-61	792F/43-43-47 717**56-58-61
52	700	758F/44-44-48 729**54-56-60	797F/44-44-48 736**58-60-63	809F/44-44-48 736**58-60-63
49	719	773F/45-46-50 743**53-55-59	814F/46-46-50 756**60-62-65	827F/46-46-50 756**60-62-65
46	739	788F/47-48-52 755**52-54-58	833F/47-48-52 777**61-64-67	846F/48-48-52 777**61-64-67
43	758	795B/48-50-54 768**51-53-57	848F/49-50-54 790**59-62-66	862F/49-50-54 790**60-62-66
40	778	786B/49-51-56 780**50-52-57	862F/50-51-56 790**54-56-60	862F/50-51-56 790**54-56-60
37	798	788B/50-52-57	862F/51-52-57	862F/51-52-57
34	818	797B/49-52-57	862F/50-52-57	862F/50-52-57
31	839	808B/48-52-58	862F/49-52-58	862F/50-52-58
28	847	817B/48-52-58	862F/49-52-58	862F/50-52-58
25	849	825B/48-52-58	862F/49-52-58	862F/50-52-58
22	850	833B/48-52-58	862F/49-52-58	862F/50-52-58
19	851	842B/48-51-58	862F/49-51-58	862F/50-51-58
16	851	850B/48-51-58	862F/49-51-58	862F/50-51-58
13	852	858B/48-51-58	862F/49-51-58	862F/50-51-58
10	853	862F/48-51-58	862F/49-51-58	862F/50-51-58
5	855	862F/48-51-58	862F/49-51-58	862F/50-51-58
0	856	862F/48-51-58	862F/49-51-58	862F/50-51-58
-5	856	862F/48-51-58	862F/49-51-58	862F/50-51-58
-10	857	862F/48-51-58	862F/50-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.22 PERCENT FOR TODA AND 0.22 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 49 FT

RUNWAY 21 ZSFZ

*** FLAPS 05 ***		AIR COND AUTO	ANTI-ICE OFF	CHANGLEJICHANG FZ/NORTH CHINA		
737-800 CFM56-7B26				DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE						
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
C 100KG		-10	0	10		
61A 650	563*/27-29-34	580*/31-31-36	585*/32-32-37			
	581**37-41-46	599**41-44-48	605**42-44-49			
58A 666	576*/29-30-36	594*/32-32-38	600*/33-33-38			
	595**39-43-48	613**42-45-50	619**44-46-51			
55A 682	590*/30-32-38	608*/33-34-39	614*/34-35-40			
	609**40-44-49	628**44-47-52	634**45-48-52			
52 700	606*/31-33-39	624*/35-36-41	630*/36-36-42			
	625**42-46-51	644**46-49-54	651**47-50-54			
49 719	622*/33-35-41	640*/36-37-43	647*/37-38-44			
	642**44-48-53	661**47-51-56	668**48-51-56			
46 739	638*/34-37-43	657*/38-39-45	663*/39-40-46			
	658**45-50-55	678**49-52-57	685**50-53-58			
43 758	655*/36-38-45	674*/39-41-47	680*/40-41-47			
	675**47-52-57	696**50-54-59	703**51-55-60			
40 778	669*/37-40-47	688*/40-42-48	695*/41-43-49			
	690**48-53-59	711**51-55-61	718**52-56-62			
37 798	683*/38-41-48	703*/41-43-50	710*/42-44-50			
	705**49-54-60	726**52-57-62	733**54-58-63			
34 818	700*/39-42-50	721*/43-45-52	727*/44-45-52			
	722**50-56-62	744**54-59-64	751**55-59-65			
31 839	718*/41-44-52	739*/44-46-53	746*/45-47-54			
	740**52-58-64	763**55-60-66	770**56-61-67			
28 847	725*/41-45-52	746*/44-47-54	753*/45-48-55			
	747**52-59-65	770**56-61-67	778**57-62-68			
25 849	725*/41-45-52	747*/44-47-54	754*/45-48-55			
	748**52-59-65	771**56-61-67	779**57-62-68			
22 850	726*/41-45-52	747*/44-47-54	754*/45-48-55			
	749**52-59-65	772**56-61-67	780**57-62-68			
19 851	727*/41-45-52	748*/44-47-54	755*/46-48-55			
	750**52-59-65	773**56-61-67	781**57-62-68			
16 851	727*/41-45-52	749*/45-47-54	756*/46-48-55			
	751**52-59-65	774**56-61-67	781**57-62-68			
13 852	728*/41-45-53	749*/45-47-54	757*/46-48-55			
	751**52-59-65	774**56-62-67	782**57-62-68			
10 853	729*/41-45-53	750*/45-47-54	757*/46-48-55			
	752**53-59-65	775**56-62-68	783**57-62-68			
5 855	729*/42-45-53	751*/45-47-54	758*/46-48-55			
	753**53-59-65	776**56-62-68	784**58-63-68			
0 856	730*/42-45-53	752*/45-47-55	759*/46-48-55			
	754**53-59-65	777**56-62-68	785**58-63-69			
-5 856	730*/42-45-53	752*/45-47-55	760*/46-48-55			
	754**53-59-66	778**57-62-68	786**58-63-69			
-10 857	730*/42-45-53	752*/45-47-55	760*/46-48-55			
	754**53-59-66	778**57-62-68	786**58-63-69			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2360 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY								
	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
21	1083	16663	0	1516	17481	0	1703	18966	0
	1493	17882	0	928	14560	0	1562	15407	0
	1841	17682	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 79 FT

RUNWAY 01 ZSJN

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				YAOQIANGJICHANG JN/NORTH CHINA
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	649	667*/39-40-43 684*/40-40-43 689*/40-40-43		
		676**49-51-54 683**53-55-58 683**53-55-58		
58A	665	682*/40-41-45 700*/41-41-45 705*/41-41-45		
		691**50-52-55 699**54-56-59 699**54-56-59		
55A	681	698*/42-43-46 716*/43-43-46 721*/43-43-46		
		706**50-52-56 716**56-58-61 716**56-58-61		
52	699	715*/43-44-48 733*/44-44-48 740*/44-44-48		
		723**52-54-58 735**57-60-63 735**58-60-63		
49	718	733*/45-46-50 752*/46-46-50 758*/46-46-50		
		740**53-55-59 756**59-62-65 756**59-62-65		
46	738	751*/46-48-52 771*/47-48-52 777*/47-48-52		
		754**51-54-58 777**61-64-67 777**61-64-67		
43	757	769*/48-50-54 789*/48-50-54 796*/49-50-54		
		767**50-53-57 790**59-62-66 790**60-62-66		
40	777	785B/49-51-56 808*/50-51-56 815*/50-51-56		
		779**50-52-56 790**54-56-60 790**54-56-60		
37	797	787B/49-52-57 826*/50-52-57 833*/51-52-57		
34	817	794B/49-52-57 841*/50-52-57 849*/50-52-57		
31	838	805B/48-52-57 858*/49-52-57 862F/49-52-57		
28	847	814B/48-52-58 862F/49-52-58 862F/49-52-58		
25	848	822B/48-52-58 862F/49-52-58 862F/49-52-58		
22	849	830B/48-52-58 862F/49-52-58 862F/49-52-58		
19	850	838B/48-52-58 862F/49-52-58 862F/49-52-58		
16	851	846B/48-51-58 862F/49-51-58 862F/49-51-58		
13	852	850*/48-51-58 862F/49-51-58 862F/49-51-58		
10	853	852*/48-51-58 862F/49-51-58 862F/49-51-58		
5	854	855*/48-51-58 862F/49-51-58 862F/49-51-58		
0	855	858*/48-51-58 862F/49-51-58 862F/49-51-58		
-5	856	860*/48-51-58 862F/49-51-58 862F/49-51-58		
-10	856	862F/48-51-58 862F/49-51-58 862F/50-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 43 985 0 52 983 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 79 FT

RUNWAY 19 ZSJN

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

YAOQIANGJICHANG
JN/NORTH CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	649	591*/31-32-37	596*/33-33-38	598*/33-33-38	
		624**44-47-51	629**45-48-52	631**46-48-52	
58A	665	606*/33-34-39	612*/35-35-40	613*/35-35-40	
		640**46-49-53	646**47-50-54	647**48-50-54	
55A	681	622*/34-36-41	627*/36-36-41	629*/37-37-42	
		656**47-51-55	662**49-51-55	664**49-52-56	
52	699	640*/36-38-43	645*/38-38-43	647*/38-38-44	
		675**49-53-57	681**51-53-57	683**51-54-58	
49	718	658*/38-39-45	663*/39-40-45	665*/40-40-45	
		694**51-55-59	700**52-55-60	702**53-55-60	
46	738	676*/39-41-47	681*/41-42-47	683*/41-42-47	
		713**52-56-61	719**54-57-62	721**54-57-62	
43	757	694*/41-43-48	700*/42-43-49	702*/43-44-49	
		732**54-58-63	739**56-59-64	741**56-59-64	
40	777	710*/42-44-50	716*/44-45-51	718*/44-45-51	
		745**54-58-63	756**57-61-65	758**57-61-66	
37	797	726*/43-46-52	732*/45-46-52	735*/45-47-52	
		757**53-57-62	773**58-62-67	776**59-63-67	
34	817	745*/44-47-54	751*/46-48-54	753*/46-48-54	
		769**52-56-62	790**58-63-68	790**58-62-67	
31	838	765*/46-49-55	771*/47-50-56	773*/48-50-56	
		782**51-55-61	790**53-56-62	790**53-56-61	
28	847	772*/46-50-56	779*/48-50-57	781*/48-51-57	
		788**51-55-61	790**51-54-60	790**51-54-59	
25	848	773*/46-50-56	779*/48-50-57	781*/48-51-57	
		790**51-56-62	790**51-54-60	790**51-53-59	
22	849	773*/46-50-56	779*/48-50-57	781*/48-51-57	
		790**51-56-62	790**51-54-60	790**51-53-59	
19	850	773*/46-50-56	779*/48-50-57	782*/48-51-57	
		790**51-56-62	790**51-54-60	790**51-53-59	
16	851	773*/46-50-56	779*/48-50-57	781*/49-51-57	
		790**51-56-62	790**51-54-60	790**51-53-59	
13	852	773*/46-50-56	779*/48-50-57	782*/49-51-57	
		790**51-56-62	790**51-54-60	790**51-53-59	
10	853	773*/46-50-56	779*/48-50-57	781*/49-51-57	
		790**51-56-62	790**51-54-60	790**51-53-59	
5	854	772*/46-50-56	779*/48-50-57	781*/49-51-57	
		790**51-56-62	790**51-54-60	790**51-53-59	
0	855	772*/46-50-56	778*/48-50-57	781*/49-50-57	
		790**52-56-62	790**51-54-60	790**51-53-60	
-5	856	771*/46-49-56	778*/48-50-57	780*/49-50-57	
		790**52-56-62	790**51-54-60	790**51-54-60	
-10	856	769*/46-49-56	776*/48-50-57	779*/48-50-57	
		790**52-57-63	790**52-55-61	790**52-54-60	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2320 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.02 PERCENT FOR TODA AND 0.02 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
19 66 1199 0 66 1220 0 1650 26808 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 69 FT

RUNWAY 03

ZSLG

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

BAITABUJICHANG

LYG/NORTH CHINA

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	CLIMB -10	WIND 0	CLIMB 10
61A	650	599F/33-33-38	638F/38-38-42	652F/40-40-43
58A	665	610F/34-35-39	650F/39-39-43	664F/41-41-45
55A	681	621F/34-36-41	662F/40-41-45	676F/42-42-46
52	700	634F/35-37-42	675F/41-42-46	690F/43-43-47
49	719	647F/37-38-44	689F/42-43-48	704F/44-45-49
46	738	659F/37-39-45	703F/43-44-49	718F/45-46-50
43	757	672F/38-40-47	717F/44-45-51	733F/46-47-52
40	777	685F/39-41-48	732F/45-47-52	748F/47-48-53
37	797	698F/40-43-49	747F/46-48-53	763F/48-50-55
34	818	710F/41-44-51	761F/47-49-55	778F/49-51-56
31	839	723F/41-45-52	774F/48-50-56	792F/50-52-57
28	847	729F/42-45-53	781F/48-51-57	799F/49-52-58
25	848	733F/42-46-53	785F/49-51-57	803F/49-52-58
22	849	737F/43-46-53	789F/49-51-58	807F/49-52-58
19	850	740F/43-46-54	793F/49-52-58	811F/49-52-58
16	851	744F/43-47-54	797F/49-51-58	816F/50-51-58
13	852	747F/44-47-54	801F/49-51-58	820F/50-51-58
10	853	751F/44-47-54	805F/49-51-58	824F/50-51-58
5	854	757F/45-48-55	812F/49-51-58	831F/50-51-58
0	855	763F/46-49-56	819F/49-51-58	838F/50-51-58
-5	856	770F/46-49-56	826F/49-51-58	845F/50-51-58
-10	856	776F/47-50-57	833F/49-51-58	852F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.15 PERCENT FOR TODA AND 0.15 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 69 FT

RUNWAY 21 ZSLG

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	BAITABUJICHANG LYG/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C	100KG	-10 0 10	
61A	650	603F/33-34-39	642F/39-39-42 656F/40-40-43 653**41-41-44
58A	665	614F/34-35-40	654F/40-40-44 668F/41-41-45 667**42-42-45
55A	681	625F/35-36-41	666F/41-41-45 681F/43-43-46
52	700	638F/36-37-43	679F/42-42-47 694F/44-44-48
49	719	650F/37-39-44	693F/43-43-48 708F/45-45-49
46	738	663F/38-40-46	708F/44-45-49 723F/46-46-51
43	757	676F/38-41-47	722F/45-46-51 738F/46-48-52
40	777	689F/39-42-48	737F/45-47-52 753F/47-49-54
37	797	702F/40-43-50	751F/46-48-54 768F/48-50-55
34	818	714F/41-44-51	765F/47-49-55 782F/49-51-57
31	839	726F/41-45-52	778F/48-50-57 796F/49-52-57
28	847	733F/42-46-53	786F/48-51-57 804F/49-52-58
25	848	737F/42-46-53	789F/49-51-58 808F/49-52-58
22	849	740F/43-46-54	793F/49-52-58 812F/49-52-58
19	850	744F/43-47-54	797F/49-52-58 816F/49-52-58
16	851	748F/43-47-54	801F/49-51-58 820F/49-51-58
13	852	751F/44-47-54	805F/49-51-58 824F/49-51-58
10	853	755F/44-48-55	810F/49-51-58 829F/49-51-58
5	854	761F/45-48-55	817F/49-51-58 836F/49-51-58
0	855	768F/46-49-56	824F/49-51-58 843F/49-51-58
-5	856	774F/46-50-56	831F/49-51-58 850F/49-51-58
-10	856	780F/47-50-57	838F/49-51-58 858F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.15 PERCENT FOR TODA AND -0.15 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 16 FT

RUNWAY 18 ZNST

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

XINGDONGJICHANG
NT/NORTH CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	700F/39-40-43 676**49-50-54	740F/40-40-43 684**53-55-58	752F/40-40-43 684**53-55-58
58A	666	714F/41-41-45 691**49-51-54	755F/41-41-45 701**54-56-60	767F/41-41-45 701**55-56-60
55A	683	727F/42-43-47 706**50-52-55	769F/43-43-47 718**56-58-61	782F/43-43-47 718**56-58-61
52	701	742F/44-45-48 722**51-53-56	785F/44-45-48 737**58-60-63	799F/45-45-48 737**58-60-63
49	720	758F/45-46-50 739**51-54-57	802F/46-46-50 757**59-62-65	817F/46-46-50 757**59-62-65
46	740	774F/46-48-52 756**51-54-58	819F/47-48-52 776**60-63-67	834F/47-48-52 778**61-64-68
43	759	788F/48-50-54 768**51-53-57	835F/49-50-54 790**59-62-65	850F/49-50-54 790**59-62-65
40	779	785B/49-52-56 780**50-52-56	850F/50-52-56 790**53-55-59	862F/50-52-56 790**54-55-59
37	799	788B/49-52-57	862F/50-52-57	862F/51-52-57
34	819	796B/49-52-57	862F/50-52-57	862F/50-52-57
31	840	807B/48-52-58	862F/49-52-58	862F/49-52-58
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	832B/48-52-58	862F/49-52-58	862F/49-52-58
19	851	840B/48-51-58	862F/49-51-58	862F/49-51-58
16	852	849B/48-51-58	862F/49-51-58	862F/49-51-58
13	853	857B/48-51-58	862F/49-51-58	862F/49-51-58
10	854	862F/48-51-58	862F/49-51-58	862F/49-51-58
5	855	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	862F/48-51-58	862F/49-51-58	862F/50-51-58
-10	857	862F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.02 PERCENT FOR TODA AND 0.02 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
18 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 16 FT

RUNWAY 36 ZSNT

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				XINGDONGJICHANG NT/NORTH CHINA
737-800 CFM56-7B26				DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
C 100KG	-10	0	10	
61A 651	635*/37-38-42	654*/40-40-43	660*/40-40-43	
	645**47-50-53	668**51-53-56	676**52-54-57	
58A 666	649*/38-39-43	669*/41-41-45	676*/41-41-45	
	659**48-51-55	683**52-54-58	691**53-55-58	
55A 683	664*/40-41-45	685*/43-43-47	691*/43-43-47	
	674**49-52-56	698**53-56-59	706**55-57-60	
52 701	681*/41-42-47	702*/44-45-48	709*/45-45-48	
	690**50-53-57	715**55-57-61	723**56-58-62	
49 720	698*/43-44-48	720*/46-46-50	727*/46-46-50	
	707**50-53-57	733**56-59-63	742**57-60-64	
46 740	716*/44-46-50	738*/47-48-52	746*/47-48-52	
	724**50-53-58	751**56-59-63	760**58-61-65	
43 759	734*/45-47-52	757*/48-50-54	764*/49-50-54	
	741**51-55-59	769**56-59-63	778**59-62-66	
40 779	752*/46-49-54	775*/50-51-56	783*/50-52-56	
	758**52-56-61	786**58-61-65	790**54-56-60	
37 799	770*/47-50-55	794*/50-52-57	801*/51-52-57	
	774**51-54-59			
34 819	787*/49-52-57	810*/50-52-57	817*/50-52-57	
	789**50-53-58			
31 840	803*/48-52-58	827*/49-52-58	834*/49-52-58	
28 848	810*/48-52-58	833*/49-52-58	841*/49-52-58	
25 849	811*/48-52-58	835*/49-52-58	843*/49-52-58	
22 850	813*/48-52-58	837*/49-52-58	844*/49-52-58	
19 851	815*/48-51-58	838*/49-51-58	846*/49-51-58	
16 852	816*/48-51-58	840*/49-51-58	848*/49-51-58	
13 853	818*/48-51-58	841*/49-51-58	849*/49-51-58	
10 854	819*/48-51-58	843*/49-51-58	851*/49-51-58	
5 855	822*/48-51-58	846*/49-51-58	853*/49-51-58	
0 856	824*/48-51-58	848*/49-51-58	856*/49-51-58	
-5 857	826*/48-51-58	850*/49-51-58	858*/49-51-58	
-10 857	828*/48-51-58	852*/49-51-58	860*/50-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 36 128 1764 0 164 4001 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 210 FT

RUNWAY 15 ZSOF

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	XINQIAO JICHANG HF/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 647	636*/37-38-42 654**48-51-54	652*/39-39-43 674**52-53-57	658*/39-39-43 680**53-54-57
58A 662	651*/39-40-44 669**50-53-56	668*/41-41-45 689**53-55-58	673*/41-41-45 696**54-56-59
55A 678	666*/40-41-45 685**51-54-58	683*/42-42-46 705**55-57-60	689*/42-42-46 712**56-58-61
52 696	683*/42-43-47 701**52-55-59	701*/44-44-48 723**56-58-62	707*/44-44-48 730**57-59-63
49 715	701*/43-44-49 718**52-56-59	719*/45-46-50 741**57-60-64	725*/46-46-50 749**59-61-65
46 735	719*/44-46-50 736**53-56-60	738*/47-48-52 760**59-62-66	744*/47-48-52 768**60-63-66
43 754	737*/46-48-52 751**52-55-60	757*/48-49-54 779**60-64-68	763*/49-49-54 786**62-65-68
40 774	756*/47-49-54 765**51-54-59	775*/50-51-55 790**56-59-63	782*/50-51-55 790**55-57-61
37 794	775*/48-51-56 779**50-53-58	795*/51-52-57 801*/51-52-57	
34 814	790B/49-52-57	812*/50-52-57	818*/50-52-57
31 834	801B/48-52-57	830*/49-52-57	836*/50-52-57
28 844	810B/48-52-58	838*/49-52-58	845*/49-52-58
25 846	819B/48-52-58	840*/49-52-58	847*/49-52-58
22 847	821*/48-52-58	841*/49-52-58	848*/49-52-58
19 847	822*/48-52-58	843*/49-52-58	849*/49-52-58
16 848	824*/48-52-58	844*/49-52-58	851*/49-52-58
13 849	825*/48-52-58	845*/49-52-58	852*/49-52-58
10 850	826*/48-52-58	847*/49-52-58	853*/50-52-58
5 851	828*/48-51-58	849*/49-51-58	856*/50-51-58
0 852	830*/48-51-58	851*/49-51-58	857*/50-51-58
-5 853	832*/48-51-58	852*/49-51-58	859*/50-51-58
-10 854	833*/48-51-58	854*/49-51-58	860*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.06 PERCENT FOR TODA AND 0.06 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 15 200 3401 0 20 417 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 210 FT

RUNWAY 15/A2 ZSOF

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			XINQIAO JICHANG HF/NORTH CHINA			
737-800 CFM56-7B26		DATED 10-JUN-2019						
C	100KG	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
		-10	0	10				
61A	647	632*/37-38-41	649*/39-39-43	655*/39-39-43				
		648**46-48-52	669**51-53-56	676**52-54-57				
58A	662	647*/38-39-43	664*/41-41-45	670*/41-41-45				
		662**47-49-53	684**53-54-58	691**54-55-59				
55A	678	662*/40-41-45	680*/42-42-46	686*/42-42-46				
		677**48-50-54	700**54-56-59	707**55-57-60				
52	696	679*/41-42-46	697*/44-44-48	703*/44-44-48				
		693**48-51-55	718**55-58-61	725**56-59-62				
49	715	697*/43-44-48	715*/45-46-50	721*/46-46-50				
		709**49-51-55	736**56-59-62	743**58-60-64				
46	735	715*/44-46-50	734*/47-48-52	740*/47-48-52				
		726**49-52-56	754**57-59-63	762**59-62-66				
43	754	733*/45-47-52	752*/48-49-53	759*/49-49-54				
		743**50-53-57	771**57-60-64	780**60-63-66				
40	774	751*/46-49-54	771*/49-51-55	778*/50-51-55				
		759**50-53-58	789**58-61-65	790**55-58-62				
37	794	770*/48-50-55	790*/51-52-57	797*/51-52-57				
		776**50-53-58						
34	814	788*/49-52-57	808*/50-52-57	814*/50-52-57				
31	834	801B/48-52-57	825*/49-52-57	832*/50-52-57				
28	844	810B/48-52-58	834*/49-52-58	841*/49-52-58				
25	846	815*/48-52-58	836*/49-52-58	842*/49-52-58				
22	847	816*/48-52-58	837*/49-52-58	844*/49-52-58				
19	847	817*/48-52-58	838*/49-52-58	845*/49-52-58				
16	848	819*/48-52-58	840*/49-52-58	846*/49-52-58				
13	849	820*/48-52-58	841*/49-52-58	848*/49-52-58				
10	850	821*/48-52-58	842*/49-52-58	849*/50-52-58				
5	851	823*/48-51-58	844*/49-51-58	851*/50-51-58				
0	852	825*/48-51-58	846*/49-51-58	853*/50-51-58				
-5	853	827*/48-51-58	848*/49-51-58	855*/50-51-58				
-10	854	828*/48-51-58	849*/49-51-58	856*/50-51-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.06 PERCENT FOR TODA AND 0.06 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 15/A2 200 3401 0 20 417 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 210 FT

RUNWAY 33

ZSOF

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				XINQIAO JICHANG HF/NORTH CHINA DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
	OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
61A	647	697F/39-39-43	738F/39-39-43	749F/39-39-43
		672**48-50-53	680**52-54-57	680**53-54-57
58A	662	710F/40-41-45	752F/41-41-45	764F/41-41-45
		687**49-51-54	696**54-56-59	696**54-56-59
55A	678	724F/42-42-46	766F/42-42-46	780F/42-42-46
		702**50-52-55	713**55-58-61	713**56-58-61
52	696	739F/43-44-48	781F/44-44-48	796F/44-44-48
		718**50-53-56	732**57-60-63	732**57-60-63
49	715	754F/44-46-50	798F/45-46-50	813F/46-46-50
		735**51-54-57	752**59-62-65	752**59-62-65
46	735	770F/46-48-52	815F/47-48-52	830F/47-48-52
		752**51-54-58	772**60-63-66	773**61-64-67
43	754	784F/47-49-54	831F/48-49-54	847F/48-49-54
		764**50-53-57	790**60-63-67	790**61-64-67
40	774	784B/49-51-55	847F/49-51-55	862F/50-51-55
		776**49-52-56	790**55-57-61	790**55-57-61
37	794	784B/49-52-57	862F/50-52-57	862F/51-52-57
34	814	790B/49-52-57	862F/50-52-57	862F/50-52-57
31	834	800B/48-52-57	862F/49-52-57	862F/50-52-57
28	844	809B/48-52-58	862F/49-52-58	862F/49-52-58
25	846	817B/48-52-58	862F/49-52-58	862F/49-52-58
22	847	825B/48-52-58	862F/49-52-58	862F/49-52-58
19	847	833B/48-52-58	862F/49-52-58	862F/49-52-58
16	848	842B/48-52-58	862F/49-52-58	862F/49-52-58
13	849	850B/48-52-58	862F/49-52-58	862F/49-52-58
10	850	858B/48-52-58	862F/49-52-58	862F/49-52-58
5	851	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	852	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	853	862F/48-51-58	862F/49-51-58	862F/50-51-58
-10	854	862F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.06 PERCENT FOR TODA AND -0.06 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 33 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 210 FT

RUNWAY 33/A7 ZSOF

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	XINQIAO JICHANG HF/NORTH CHINA				
737-800		CFM56-7B26		DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE									
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)									
C	100KG	-10	0	10					
61A	647	677F/39-39-43 663**44-46-49	717F/39-39-43 680**52-54-57	731F/39-39-43 680**53-54-57					
58A	662	690F/40-41-45 677**45-47-50	731F/41-41-45 695**53-55-59	745F/41-41-45 696**54-56-59					
55A	678	703F/42-42-46 691**46-47-51	745F/42-42-46 711**54-56-60	759F/42-42-46 713**56-58-61					
52	696	717F/43-44-48 708**47-48-52	760F/44-44-48 728**55-57-60	775F/44-44-48 732**57-60-63					
49	715	732F/44-46-50 724**47-49-53	776F/45-46-50 746**56-58-61	791F/46-46-50 751**58-61-64					
46	735	747F/46-48-52 742**48-50-54	792F/47-48-52 764**56-59-62	807F/47-48-52 769**59-62-65					
43	754	762F/47-49-54 758**49-51-55	808F/48-49-54 781**57-59-63	824F/48-49-54 787**59-62-66					
40	774	777F/49-51-55 775**49-52-56	825F/49-51-55 790**55-57-61	841F/50-51-55 790**55-57-61					
37	794	784B/49-52-57	841F/50-52-57	858F/51-52-57					
34	814	790B/49-52-57	856F/50-52-57	862F/50-52-57					
31	834	800B/48-52-57	862F/49-52-57	862F/50-52-57					
28	844	809B/48-52-58	862F/49-52-58	862F/49-52-58					
25	846	817B/48-52-58	862F/49-52-58	862F/49-52-58					
22	847	825B/48-52-58	862F/49-52-58	862F/49-52-58					
19	847	833B/48-52-58	862F/49-52-58	862F/49-52-58					
16	848	841F/48-52-58	862F/49-52-58	862F/49-52-58					
13	849	845F/48-52-58	862F/49-52-58	862F/49-52-58					
10	850	849F/48-52-58	862F/49-52-58	862F/49-52-58					
5	851	856F/48-51-58	862F/49-51-58	862F/49-51-58					
0	852	862F/48-51-58	862F/49-51-58	862F/49-51-58					
-5	853	862F/48-51-58	862F/49-51-58	862F/50-51-58					
-10	854	862F/48-51-58	862F/49-51-58	862F/50-51-58					

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.06 PERCENT FOR TODA AND -0.06 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

33/A7 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

EL ELEVATION 33 FT

RUNWAY 17 ZSQD

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				LIUTING JICHANG QD/NORTH CHINA DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10
737-800	CFM56-7B26		61A 650	584*/30-32-37	602*/34-34-38	608*/35-35-39
				600**41-44-48	620**44-46-51	626**45-47-51
			58A 666	598*/32-33-38	616*/35-35-40	622*/36-36-41
				614**42-45-50	634**46-48-52	641**47-49-53
			55A 682	612*/33-34-40	631*/36-37-42	637*/38-38-42
				629**44-47-52	649**47-50-54	656**48-51-55
			52 700	628*/35-36-42	647*/38-38-44	653*/39-39-44
				645**45-49-54	666**49-51-56	673**50-52-57
			49 719	644*/36-38-44	664*/39-40-45	670*/41-41-46
				661**47-51-56	683**50-53-58	690**51-54-59
			46 739	661*/38-39-45	681*/41-42-47	688*/42-42-48
				679**48-52-57	701**52-55-60	708**53-56-60
			43 758	678*/39-41-47	698*/42-43-49	705*/43-44-49
				695**50-54-59	718**53-57-62	726**54-58-62
			40 778	695*/40-43-49	715*/43-45-51	722*/45-46-51
				712**51-56-61	735**54-58-63	743**56-59-64
			37 798	711*/41-44-50	733*/45-46-52	740*/46-47-53
				729**52-57-63	753**56-60-65	761**57-61-66
			34 818	729*/43-46-52	751*/46-48-54	758*/47-49-55
				746**53-59-65	771**57-62-67	779**58-63-68
			31 840	747*/44-47-54	769*/47-50-56	777*/48-50-56
				763**53-58-64	790**59-63-69	790**54-57-63
			28 848	754*/44-48-55	777*/48-50-57	784*/49-51-57
				770**53-58-64	790**54-58-63	790**51-54-60
			25 849	755*/44-48-55	778*/48-50-57	786*/49-51-57
				772**54-59-65	790**53-57-63	790**50-53-59
			22 850	756*/45-48-55	779*/48-50-57	787*/49-51-57
				774**54-60-66	790**53-56-62	790**50-53-59
			19 851	757*/45-48-55	780*/48-50-57	788*/49-51-57
				775**55-61-67	790**52-56-62	790**50-52-58
			16 852	758*/45-48-55	781*/48-51-57	789*/49-51-58
				777**56-61-67	790**52-55-61	
			13 853	759*/45-48-55	783*/48-51-57	790*/49-51-58
				779**56-62-68	790**51-54-60	
			10 853	760*/45-48-55	784*/48-51-57	791*/49-51-58
				780**56-62-68	790**51-54-60	
			5 855	762*/45-48-55	785*/49-51-57	793*/49-51-58
				782**56-62-68	790**50-53-59	
			0 856	763*/45-49-55	787*/49-51-57	794*/50-51-58
				784**57-62-68	790**50-53-59	
			-5 857	764*/46-49-56	788*/49-51-58	796*/50-51-58
				785**57-63-69	790**50-52-58	
			-10 857	765*/46-49-56	789*/49-51-58	796*/50-51-58
				786**57-63-69	790**50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1610 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
17	623	6384	0	358	7452	0	322	5386	0
	49	957	0	148	3051	0	135	2581	0
	1175	18582	0	344	7806	0	23	360	0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 33 FT

RUNWAY 35 ZSQD

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	LIUTING JICHANG QD/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 650	653*/39-40-43 669*/40-40-43 674*/40-40-43		
	661**46-48-51 684**53-55-58 684**53-55-58		
58A 666	668*/40-41-45 684*/41-41-45 689*/41-41-45		
	676**47-49-53 700**54-56-60 700**54-56-60		
55A 682	683*/42-43-47 700*/43-43-47 705*/43-43-47		
	691**49-51-54 716**55-57-61 717**56-58-61		
52 700	701*/43-45-48 718*/44-45-48 724*/44-45-48		
	707**50-52-56 733**56-58-62 736**58-60-63		
49 719	718*/45-46-50 737*/46-46-50 742*/46-46-50		
	724**51-53-57 751**57-59-63 757**59-62-65		
46 739	737*/46-48-52 756*/47-48-52 762*/47-48-52		
	741**51-53-57 770**57-60-63 778**61-64-67		
43 758	754*/47-49-54 775*/48-50-54 780*/49-50-54		
	758**50-52-56 788**58-61-64 790**59-62-65		
40 778	773*/48-51-55 794*/50-51-56 800*/50-51-56		
	775**50-53-57 790**53-55-60 790**54-55-60		
37 798	787B/49-52-57 812*/50-52-57 818*/51-52-57		
34 818	795B/49-52-57 828*/50-52-57 836*/50-52-57		
31 840	806B/48-52-58 844*/49-52-58 852*/49-52-58		
28 848	815B/48-52-58 851*/49-52-58 859*/49-52-58		
25 849	823B/48-52-58 853*/49-52-58 861*/49-52-58		
22 850	830*/48-52-58 855*/49-52-58 862F/49-52-58		
19 851	832*/48-51-58 857*/49-51-58 862F/49-51-58		
16 852	833*/48-51-58 858*/49-51-58 862F/49-51-58		
13 853	835*/48-51-58 860*/49-51-58 862F/49-51-58		
10 853	837*/48-51-58 862F/49-51-58 862F/49-51-58		
5 855	840*/48-51-58 862F/49-51-58 862F/49-51-58		
0 856	843*/48-51-58 862F/49-51-58 862F/49-51-58		
-5 857	846*/48-51-58 862F/49-51-58 862F/49-51-58		
-10 857	848*/48-51-58 862F/49-51-58 862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.06 PERCENT FOR TODA AND -0.06 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 35 66 1091 0 144 2805 0 75 1285 0
 157 3255 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 20 FT

RUNWAY 03 ZSWZ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

LONGWANJICHANG
WZ/EASTERN CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	638*/37-38-42 658**46-48-51	651*/40-40-43 680**52-54-57	656*/40-40-43 684**53-55-58
58A	666	653*/39-40-44 672**47-49-52	667*/41-41-45 696**54-56-59	672*/41-41-45 700**55-56-60
55A	682	669*/40-41-45 687**47-49-53	683*/43-43-47 712**55-57-60	688*/43-43-47 718**56-58-61
52	701	686*/42-43-47 703**48-50-54	701*/44-45-48 729**56-58-61	706*/45-45-48 737**58-60-63
49	720	705*/43-45-49 720**49-51-55	720*/46-46-50 747**56-59-62	725*/46-46-50 755**59-61-65
46	739	724*/45-46-51 737**49-52-56	739*/47-48-52 765**57-59-63	744*/47-48-52 774**59-62-65
43	759	742*/46-48-53 753**50-53-57	758*/48-50-54 783**57-60-64	763*/49-50-54 790**59-62-65
40	779	760*/47-50-54 770**50-53-58	776*/50-51-56 790**54-57-61	782*/50-52-56 790**54-55-60
37	799	779*/48-51-56 783**50-53-58	795*/50-52-57 800*/51-52-57	
34	819	796B/49-52-57	814*/50-52-57	819*/50-52-57
31	840	807B/48-52-58	834*/49-52-58	839*/49-52-58
28	848	816B/48-52-58	841*/49-52-58	847*/49-52-58
25	849	824B/48-52-58	842*/49-52-58	848*/49-52-58
22	850	826*/48-52-58	843*/49-52-58	849*/49-52-58
19	851	827*/48-51-58	844*/49-51-58	850*/49-51-58
16	852	828*/48-51-58	845*/49-51-58	851*/49-51-58
13	853	829*/48-51-58	846*/49-51-58	852*/49-51-58
10	854	830*/48-51-58	847*/49-51-58	853*/49-51-58
5	855	831*/48-51-58	849*/49-51-58	854*/49-51-58
0	856	832*/48-51-58	850*/49-51-58	856*/49-51-58
-5	857	833*/48-51-58	851*/49-51-58	857*/49-51-58
-10	857	834*/48-51-58	851*/49-51-58	857*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1010 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 594 11780 0 640 12123 0 43 1000 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 20 FT

RUNWAY 03/A4 ZSWZ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

LONGWANJICHANG
WZ/EASTERN CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	590F/31-32-37	629F/37-37-41	643F/39-39-43
58A	666	601F/32-33-39	640F/38-38-42	654F/40-40-44
55A	682	612F/33-34-40	652F/39-39-44	666F/41-41-45
52	701	624F/34-36-41	665F/40-41-45	680F/42-42-47
49	720	636F/35-37-43	679F/41-42-47	694F/43-43-48
46	739	648F/36-38-44	693F/42-43-48	708F/44-45-49
43	759	660F/37-39-45	707F/43-44-50	722F/45-46-51
40	779	672F/38-40-47	721F/44-45-51	737F/46-47-52
37	799	685F/38-41-48	736F/45-47-53	751F/47-48-54
34	819	698F/39-42-50	749F/46-48-54	766F/48-50-55
31	840	710F/40-43-51	762F/46-49-55	779F/48-51-57
28	848	717F/40-44-52	769F/47-49-56	787F/49-51-57
25	849	720F/41-44-52	772F/47-50-56	791F/49-52-58
22	850	724F/41-44-52	776F/48-50-57	795F/49-52-58
19	851	727F/42-45-52	780F/48-50-57	799F/49-51-58
16	852	731F/42-45-53	784F/48-51-57	803F/49-51-58
13	853	734F/42-46-53	788F/49-51-57	807F/49-51-58
10	854	738F/43-46-53	792F/49-51-58	811F/49-51-58
5	855	744F/43-47-54	799F/49-51-58	818F/49-51-58
0	856	750F/44-47-54	806F/49-51-58	825F/49-51-58
-5	857	756F/45-48-55	813F/49-51-58	832F/49-51-58
-10	857	763F/45-49-55	819F/49-51-58	839F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 970 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/A4 594 11780 0 640 12123 0 43 1000 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 20 FT

RUNWAY 21 ZSWZ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

LONGWANJICHANG
WZ/EASTERN CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	651	680F/39-40-43	721F/40-40-43	735F/40-40-43
		666**45-46-49	684**53-55-58	684**53-55-58
58A	666	693F/41-41-45	734F/41-41-45	749F/41-41-45
		681**45-47-50	699**54-56-59	700**55-56-60
55A	682	706F/42-43-47	748F/43-43-47	763F/43-43-47
		695**46-48-51	715F**54-57-60	718**56-58-61
52	701	721F/43-45-48	764F/44-45-48	779F/45-45-48
		712**47-49-52	732**55-57-61	737**58-60-63
49	720	736F/45-46-50	780F/46-46-50	795F/46-46-50
		729**48-49-53	750**56-58-62	755**59-61-65
46	739	751F/46-48-52	796F/47-48-52	812F/47-48-52
		746**48-50-54	768**56-59-62	774**59-62-65
43	759	766F/48-50-54	813F/49-50-54	828F/49-50-54
		763**49-51-55	785**57-60-63	790**59-62-65
40	779	781F/49-52-56	830F/50-52-56	845F/50-52-56
		780**49-52-56	790**53-55-60	790**54-55-60
37	799	788B/49-52-57	845F/50-52-57	862F/51-52-57
34	819	796B/49-52-57	860F/50-52-57	862F/50-52-57
31	840	807B/48-52-58	862F/49-52-58	862F/49-52-58
28	848	816B/48-52-58	862F/49-52-58	862F/49-52-58
25	849	824B/48-52-58	862F/49-52-58	862F/49-52-58
22	850	832B/48-52-58	862F/49-52-58	862F/49-52-58
19	851	840F/48-51-58	862F/49-51-58	862F/49-51-58
16	852	844F/48-51-58	862F/49-51-58	862F/49-51-58
13	853	848F/48-51-58	862F/49-51-58	862F/49-51-58
10	854	852F/48-51-58	862F/49-51-58	862F/49-51-58
5	855	859F/48-51-58	862F/49-51-58	862F/49-51-58
0	856	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	857	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	857	862F/48-51-58	862F/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
21 NONE

Intentionally blank

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 09

ZSXZ

*** FLAPS 05 ***		AIR COND AUTO	ANTI-ICE OFF	GUANYINJICHANG XZ/NORTH CHINA			
737-800	CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE							
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)							
C 100KG	-10	0	10				
61A 649	664*/39-40-43	681*/40-40-43	687*/40-40-43				
	671**47-49-52	682**53-54-58	682**53-54-58				
58A 664	679*/40-41-45	697*/41-41-45	702*/41-41-45				
	685**48-49-53	698**54-56-59	698**54-56-59				
55A 680	694*/42-43-46	713*/43-43-46	718*/43-43-46				
	700**49-51-55	715**56-58-61	715**56-58-61				
52 698	711*/43-44-48	730*/44-44-48	736*/44-44-48				
	717**51-53-57	735**57-60-63	735**58-60-63				
49 717	729*/45-46-50	748*/46-46-50	755*/46-46-50				
	734**51-54-58	755**59-62-65	755**59-62-65				
46 737	747*/46-48-52	767*/47-48-52	774*/47-48-52				
	752**52-54-58	774**60-63-66	776**61-64-67				
43 756	764*/48-50-54	785*/48-50-54	792*/49-50-54				
	766**50-53-57	790**60-63-66	790**60-63-66				
40 776	783*/49-51-56	804*/50-51-56	811*/50-51-56				
	778**50-52-56	790**54-56-60	790**54-56-60				
37 796	786B/49-52-57	822*/51-52-57	829*/51-52-57				
34 816	793B/49-52-57	837*/50-52-57	845*/50-52-57				
31 837	804B/48-52-57	853*/49-52-57	861*/50-52-57				
28 846	813B/48-52-58	860*/49-52-58	862F/49-52-58				
25 847	821B/48-52-58	862F/49-52-58	862F/49-52-58				
22 848	829B/48-52-58	862F/49-52-58	862F/49-52-58				
19 849	837B/48-52-58	862F/49-52-58	862F/49-52-58				
16 850	843*/48-52-58	862F/49-52-58	862F/49-52-58				
13 851	845*/48-51-58	862F/49-51-58	862F/49-51-58				
10 852	847*/48-51-58	862F/49-51-58	862F/49-51-58				
5 853	850*/48-51-58	862F/49-51-58	862F/49-51-58				
0 854	853*/48-51-58	862F/49-51-58	862F/49-51-58				
-5 855	855*/48-51-58	862F/49-51-58	862F/50-51-58				
-10 856	858*/48-51-58	862F/49-51-58	862F/50-51-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 09 49 1020 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 27 ZSXZ

		*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	GUANYINJICHANG XZ/NORTH CHINA			
737-800		CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE								
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)								
C	100KG	-10	0	10				
61A	649	664*/39-40-43 670**47-49-52	681*/40-40-43 682**53-54-58	687*/40-40-43 682**53-54-58				
58A	664	679*/40-41-45 684**48-50-53	697*/41-41-45 698**54-56-59	702*/41-41-45 698**54-56-59				
55A	680	694*/42-43-46 699**48-50-53	713*/43-43-46 715**56-58-61	719*/43-43-46 715**56-58-61				
52	698	711*/43-44-48 715**51-53-57	730*/44-44-48 735**57-60-63	737*/44-44-48 735**58-60-63				
49	717	728*/45-46-50 733**52-54-58	748*/46-46-50 755**59-62-65	755*/46-46-50 755**59-62-65				
46	737	746*/46-48-52 750**50-53-56	767*/47-48-52 774**60-63-66	774*/47-48-52 776**61-64-67				
43	756	764*/48-50-54 766**50-53-57	785*/48-50-54 790**60-63-66	792*/49-50-54 790**60-63-66				
40	776	782*/49-51-56 778**50-52-56	804*/50-51-56 790**54-56-60	811*/50-51-56 790**54-56-60				
37	796	786B/49-52-57	822*/51-52-57	829*/51-52-57				
34	816	793B/49-52-57	837*/50-52-57	844*/50-52-57				
31	837	804B/48-52-57	852*/49-52-57	860*/50-52-57				
28	846	813B/48-52-58	859*/49-52-58	862F/49-52-58				
25	847	821B/48-52-58	861*/49-52-58	862F/49-52-58				
22	848	829B/48-52-58	862F/49-52-58	862F/49-52-58				
19	849	837B/48-52-58	862F/49-52-58	862F/49-52-58				
16	850	842*/48-52-58	862F/49-52-58	862F/49-52-58				
13	851	844*/48-51-58	862F/49-51-58	862F/49-51-58				
10	852	846*/48-51-58	862F/49-51-58	862F/49-51-58				
5	853	849*/48-51-58	862F/49-51-58	862F/49-51-58				
0	854	852*/48-51-58	862F/49-51-58	862F/49-51-58				
-5	855	855*/48-51-58	862F/49-51-58	862F/50-51-58				
-10	856	857*/48-51-58	862F/49-51-58	862F/50-51-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

27 46 930 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02L ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	622	627*/36-37-40 637**42-43-46	639*/37-37-40 654**50-51-54	643*/37-37-40 654**50-52-55
58A	638	643*/38-39-42 650**42-44-47	655*/39-39-42 668**51-52-55	659*/39-39-42 671**52-53-56
55A	654	659*/39-40-44 665**43-44-48	671*/40-40-44 684**51-53-56	675*/40-40-44 687**53-55-58
52A	670	675*/41-42-45 680**44-45-49	680*/42-42-45 699**52-54-57	680*/42-42-45 705**55-57-60
49	688	693*/42-43-47 696**45-46-50	699*/43-43-47 716**53-55-58	699*/43-43-47 722**56-58-61
46	707	711*/44-45-49 712**45-47-51	720*/45-45-49 734**54-56-59	720*/45-45-49 740**56-59-62
43	726	730*/45-47-51 728**46-48-52	740*/46-47-51 751**54-56-60	741*/46-47-51 757**57-59-63
40	744	746F/47-49-53	760*/47-49-53 767**55-57-61	761*/48-49-53 775**58-60-64
37	764	760F/48-50-54	780*/49-50-55 785**55-58-62	781*/49-50-55 790**58-60-64
34	784	772B/48-51-55	800*/50-52-56 790**52-54-58	800*/51-52-56 790**52-54-58
31	802	777B/48-51-56	817*/50-52-57	821*/50-52-57
28	819	782B/48-51-57	833*/50-52-57	838*/50-52-57
25	823	786B/48-52-57	838*/50-52-57	843*/50-52-57
22	824	790B/49-52-57	838*/50-52-57	843*/50-52-57
19	825	798B/49-52-57	839*/50-52-57	844*/50-52-57
16	825	806B/49-52-57	840*/50-52-57	845*/50-52-57
13	826	814B/49-52-57	841*/50-52-57	846*/50-52-57
10	827	822F/49-52-57	842*/50-52-57	847*/50-52-57
5	828	828*/49-52-57	843*/50-52-57	848*/50-52-57
0	829	829*/49-52-57	844*/50-52-57	849*/50-52-57
-5	830	829*/49-52-57	845*/50-52-57	850*/50-52-57
-10	830	830*/49-52-57	845*/50-52-57	851*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 990 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02L 522 12503 0 535 12886 0 541 12862 0
 594 14830 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02L/B2 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019		
737-800	CFM56-7B26				
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10	
61A	622	626*/36-37-40 626**38-38-42	638*/37-37-40 646**46-47-50	642*/37-37-40 651**49-50-53	
58A	638	641F/38-39-42 640**38-39-43	654*/39-39-42 660**47-48-51	658*/39-39-42 666**49-51-54	
55A	654	653F/39-40-44	670*/40-40-44 675**47-48-52	674*/40-40-44 681**50-51-54	
52A	670	665F/40-41-45	680*/42-42-45 689**48-49-53	680*/42-42-45 696**51-52-55	
49	688	679F/41-42-46	699*/43-43-47 706**49-50-54	699*/43-43-47 713**52-53-56	
46	707	693F/42-44-48	720*/45-45-49 723**50-51-55	720*/45-45-49 730**52-54-57	
43	726	707F/43-45-49	740*/46-47-51 739**50-52-56	741*/46-47-51 747**53-55-58	
40	744	722F/44-46-51	760*/47-49-53 756**51-53-57	761*/48-49-53 764**54-56-60	
37	764	736F/45-47-52	779*/49-50-55 774**52-54-58	781*/49-50-55 781**55-57-61	
34	784	750F/46-48-54	799F/50-52-56 790**52-54-58	800*/51-52-56 790**52-54-58	
31	802	762F/46-49-55	812F/50-52-57	821*/50-52-57	
28	819	773F/47-50-56	824F/50-52-57	837*/50-52-57	
25	823	779F/48-51-56	830F/50-52-57	841*/50-52-57	
22	824	782F/48-51-57	834F/50-52-57	842*/50-52-57	
19	825	786F/48-52-57	838F/50-52-57	843*/50-52-57	
16	825	790F/49-52-57	839*/50-52-57	844*/50-52-57	
13	826	794F/49-52-57	840*/50-52-57	845*/50-52-57	
10	827	797F/49-52-57	840*/50-52-57	845*/50-52-57	
5	828	804F/49-52-57	842*/50-52-57	847*/50-52-57	
0	829	810F/49-52-57	843*/50-52-57	848*/50-52-57	
-5	830	817F/49-52-57	844*/50-52-57	849*/50-52-57	
-10	830	824F/49-52-57	844*/50-52-57	849*/50-52-57	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 990 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02L/B2 522 12503 0 535 12886 0 541 12862 0
 594 14830 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02R ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	622	626*/36-37-40 654**49-51-54	638*/37-37-40 654**50-52-55	642*/37-37-40 654**50-52-55
58A	638	642*/38-39-42 669**50-52-55	654*/39-39-42 671**52-53-56	658*/39-39-42 671**52-53-56
55A	654	658*/39-40-44 684**51-53-56	670*/40-40-44 687**53-55-58	674*/40-40-44 687**53-55-58
52A	670	674*/41-42-45 699**52-54-57	679*/42-42-45 705**55-57-60	680*/42-42-45 705**55-57-60
49	688	692*/42-43-47 716**52-55-58	699*/43-43-47 724**56-59-62	699*/43-43-47 724**57-59-62
46	707	710*/44-45-49 729**51-54-57	719*/45-45-49 744**58-61-64	720*/45-45-49 744**58-61-64
43	726	729*/45-47-51 741**50-53-56	740*/46-47-51 763**60-63-66	740*/46-47-51 763**60-63-66
40	744	746*/47-49-53 753**49-52-56	760*/47-49-53 780**60-63-67	761*/48-49-53 783**61-65-68
37	764	765*/48-50-55 765**48-51-55	779*/49-50-55 790**57-60-64	780*/49-50-55 790**58-60-64
34	784	772B/48-51-55 790**52-54-58	799*/50-52-56 800*/50-52-56	800*/50-52-56 790**52-54-58
31	802	777B/48-51-56 819	816*/50-52-57 832*/50-52-57	821*/50-52-57 837*/50-52-57
28	819	782B/48-51-57 823	836*/50-52-57 837*/50-52-57	841*/50-52-57 842*/50-52-57
25	823	786B/48-52-57 824	837*/50-52-57 838*/50-52-57	843*/50-52-57 843*/50-52-57
22	824	790B/49-52-57 825	838*/50-52-57 839*/50-52-57	844*/50-52-57 844*/50-52-57
19	825	797B/49-52-57 825	840*/50-52-57 840*/50-52-57	845*/50-52-57 845*/50-52-57
16	825	805B/49-52-57 826	840*/50-52-57 842*/50-52-57	846*/50-52-57 846*/50-52-57
13	826	814B/49-52-57 827	842*/50-52-57 842*/50-52-57	847*/50-52-57 847*/50-52-57
10	827	822B/49-52-57 828	843*/50-52-57 843*/50-52-57	848*/50-52-57 848*/50-52-57
5	828	826*/49-52-57 829	844*/50-52-57 844*/50-52-57	849*/50-52-57 849*/50-52-57
0	829	827*/49-52-57 830	844*/50-52-57 844*/50-52-57	849*/50-52-57 849*/50-52-57
-5	830	828*/49-52-57 830	844*/50-52-57 844*/50-52-57	849*/50-52-57 849*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1000 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R 541 12426 0 548 12402 0 600 14370 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02R/B4 ZUCK

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

			-10	0	10
C	100KG				
61A	622	620F/36-37-40	634*/37-37-40 641**44-45-48	638*/37-37-40 647**47-48-51	
58A	638	632F/37-38-41	650*/39-39-42 655**45-46-49	654*/39-39-42 662**47-49-52	
55A	654	644F/38-39-43	666*/40-40-44 670**46-46-50	670*/40-40-44 677**48-49-52	
52A	670	656F/39-40-44	679*/42-42-45 684**46-47-51	680*/42-42-45 691**49-50-53	
49	688	669F/40-41-46	699*/43-43-47 701**47-48-52	699*/43-43-47 708**50-51-54	
46	707	683F/41-43-47	719*/45-45-49 718**48-49-53	720*/45-45-49 725**51-52-55	
43	726	697F/42-44-48	738*/46-47-51 734**48-50-54	740*/46-47-51 742**51-53-57	
40	744	711F/43-45-50	756*/47-49-53 751**49-51-55	761*/48-49-53 759**52-54-58	
37	764	726F/44-46-51	771F/49-50-55 768**50-52-56	779*/49-50-55 776**53-55-59	
34	784	739F/45-47-53	787F/50-52-56 786**51-53-57	799*/50-52-56 790**52-54-58	
31	802	751F/45-48-54	801F/50-52-57	816*/50-52-57	
28	819	762F/46-49-55	813F/50-52-57	830F/50-52-57	
25	823	767F/46-50-56	819F/50-52-57	836F/50-52-57	
22	824	771F/47-50-56	823F/50-52-57	837*/50-52-57	
19	825	775F/47-50-56	827F/50-52-57	838*/50-52-57	
16	825	778F/47-51-56	831F/50-52-57	839*/50-52-57	
13	826	782F/48-51-57	835F/50-52-57	840*/50-52-57	
10	827	786F/48-51-57	836*/50-52-57	841*/50-52-57	
5	828	792F/49-52-57	837*/50-52-57	842*/50-52-57	
0	829	799F/49-52-57	838*/50-52-57	843*/50-52-57	
-5	830	805F/49-52-57	839*/50-52-57	844*/50-52-57	
-10	830	812F/49-52-57	839*/50-52-57	845*/50-52-57	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 980 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2911 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
02R/B4 541 12426 0 548 12402 0 600 14370 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02R/E1 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	622	625*/36-37-40	637*/37-37-40	641*/37-37-40
		646**45-47-50	654**50-52-55	654**50-52-55
58A	638	640*/38-39-42	653*/39-39-42	657*/39-39-42
		661**46-48-51	671**52-53-56	671**52-53-56
55A	654	656*/39-40-44	669*/40-40-44	673*/40-40-44
		676**47-49-52	687**53-55-58	687**53-55-58
52A	670	672*/41-42-45	679*/42-42-45	680*/42-42-45
		690**48-50-53	705**55-57-60	705**55-57-60
49	688	691*/42-43-47	699*/43-43-47	699*/43-43-47
		707**49-51-54	724**56-59-62	724**57-59-62
46	707	709*/44-45-49	719*/45-45-49	720*/45-45-49
		724**49-51-55	742**57-60-63	744**58-61-64
43	726	727*/45-47-51	740*/46-47-51	740*/46-47-51
		740**50-52-56	760**58-61-64	763**60-63-66
40	744	745*/47-49-53	759*/47-49-53	761*/48-49-53
		753**49-52-56	777**58-61-65	783**61-64-68
37	764	763*/48-50-55	777*/49-50-55	780*/49-50-55
		765**48-51-55	790**57-60-64	790**58-60-64
34	784	772B/48-51-55	797*/50-52-56	800*/50-52-56
			790**52-54-58	790**52-54-58
31	802	777B/48-51-56	815*/50-52-57	820*/50-52-57
28	819	782B/48-51-57	830*/50-52-57	835*/50-52-57
25	823	786B/48-52-57	835*/50-52-57	840*/50-52-57
22	824	790B/49-52-57	836*/50-52-57	841*/50-52-57
19	825	797B/49-52-57	837*/50-52-57	842*/50-52-57
16	825	805B/49-52-57	838*/50-52-57	843*/50-52-57
13	826	814B/49-52-57	838*/50-52-57	843*/50-52-57
10	827	822B/49-52-57	839*/50-52-57	844*/50-52-57
5	828	825*/49-52-57	840*/50-52-57	845*/50-52-57
0	829	826*/49-52-57	841*/50-52-57	847*/50-52-57
-5	830	827*/49-52-57	842*/50-52-57	848*/50-52-57
-10	830	827*/49-52-57	843*/50-52-57	848*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1000 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R/E1 541 12426 0 548 12402 0 600 14370 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02R/E2 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	-10	0	10	
C	100KG				
61A	622	624*/36-37-40	636*/37-37-40	640*/37-37-40	
		639**43-44-47	654**50-52-55	654**50-52-55	
58A	638	639*/38-39-42	652*/39-39-42	656*/39-39-42	
		653**43-45-48	671**52-53-56	671**52-53-56	
55A	654	655*/39-40-44	668*/40-40-44	672*/40-40-44	
		668**44-46-49	686**52-54-57	687**53-55-58	
52A	670	672*/41-42-45	679*/42-42-45	680*/42-42-45	
		683**45-46-50	701**53-55-58	705**55-57-60	
49	688	690*/42-43-47	699*/43-43-47	699*/43-43-47	
		699**46-47-51	719**54-56-59	724**57-59-62	
46	707	708*/44-45-49	719*/45-45-49	720*/45-45-49	
		716**46-48-52	736**55-57-60	742**57-60-63	
43	726	726*/45-47-51	740*/46-47-51	740*/46-47-51	
		732**47-49-53	754**55-58-61	759**58-60-64	
40	744	744*/47-49-53	758*/47-49-53	761*/48-49-53	
		748**48-50-54	770**56-58-62	777**59-61-65	
37	764	762*/48-50-54	777*/49-50-55	780*/49-50-55	
		764**48-51-55	788**56-59-63	790**58-60-64	
34	784	772B/48-51-55	796*/50-52-56	800*/50-52-56	
			790**52-54-58	790**52-54-58	
31	802	777B/48-51-56	814*/50-52-57	819*/50-52-57	
28	819	782B/48-51-57	829*/50-52-57	834*/50-52-57	
25	823	786B/48-52-57	834*/50-52-57	839*/50-52-57	
22	824	790B/49-52-57	835*/50-52-57	840*/50-52-57	
19	825	797B/49-52-57	836*/50-52-57	841*/50-52-57	
16	825	805B/49-52-57	836*/50-52-57	842*/50-52-57	
13	826	814B/49-52-57	837*/50-52-57	842*/50-52-57	
10	827	822B/49-52-57	838*/50-52-57	843*/50-52-57	
5	828	824*/49-52-57	839*/50-52-57	844*/50-52-57	
0	829	825*/49-52-57	840*/50-52-57	846*/50-52-57	
-5	830	825*/49-52-57	841*/50-52-57	847*/50-52-57	
-10	830	826*/49-52-57	842*/50-52-57	847*/50-52-57	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1000 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3250 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R/E2 541 12426 0 548 12402 0 600 14370 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 03

ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	622	708F/36-37-40 654**49-52-55	746F/37-37-40 654**50-52-55	758F/37-37-40 654**50-52-55
58A	638	722F/38-39-42 671**51-53-56	761F/38-39-42 671**51-53-56	773F/39-39-42 671**52-53-56
55A	654	736F/39-40-44 687**52-55-58	776F/40-40-44 687**53-55-58	789F/40-40-44 687**53-55-58
52A	670	750F/40-42-45 703**53-56-59	792F/41-42-45 705**54-57-60	805F/42-42-45 705**55-57-60
49	688	765F/42-43-47 716**52-54-58	809F/43-43-47 724**56-59-62	823F/43-43-47 724**56-59-62
46	707	779F/44-45-49 728**51-53-57	824F/44-45-49 744**58-61-64	840F/45-45-49 744**58-61-64
43	726	784B/45-47-51 741**50-52-56	839F/46-47-51 763**59-63-66	855F/46-47-51 763**60-63-66
40	744	776B/46-49-53 753**49-51-55	853F/47-49-53 780**59-63-66	862F/47-49-53 783**61-65-68
37	764	768B/48-50-55 765**48-51-55	862F/48-50-55 790**57-60-64	862F/49-50-55 790**57-60-64
34	784	771B/48-51-55 790**52-54-58	862F/50-52-56 790**52-54-58	862F/50-52-56 790**52-54-58
31	802	776B/48-51-56 802	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
28	819	781B/48-51-57 823	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
25	823	785B/48-51-57 824	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
22	824	789B/48-52-57 825	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
19	825	796B/48-52-57 825	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
16	825	804B/48-52-57 826	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
13	826	812B/48-52-57 827	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
10	827	820B/48-52-57 828	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
5	828	834B/48-52-57 829	862F/49-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
0	829	848B/49-52-57 830	862F/50-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
-5	830	862F/49-52-57 830	862F/50-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
-10				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.21 PERCENT FOR TODA AND -0.21 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 03/H2 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	-10	0	10
C	100KG			
61A	622	694F/36-37-40	733F/37-37-40	745F/37-37-40
		654**49-52-55	654**50-52-55	654**50-52-55
58A	638	708F/38-39-42	748F/38-39-42	760F/39-39-42
		671**51-53-56	671**51-53-56	671**52-53-56
55A	654	722F/39-40-44	763F/40-40-44	776F/40-40-44
		687**52-55-58	687**53-55-58	687**53-55-58
52A	670	736F/40-42-45	778F/41-42-45	792F/42-42-45
		702**53-56-59	705**54-57-60	705***55-57-60
49	688	752F/42-43-47	794F/43-43-47	809F/43-43-47
		716**52-54-58	724**56-59-62	724**56-59-62
46	707	767F/44-45-49	811F/44-45-49	826F/45-45-49
		728**51-53-57	744**58-61-64	744**58-61-64
43	726	781F/45-47-51	826F/46-47-51	842F/46-47-51
		741**50-52-56	763**59-63-66	763**60-63-66
40	744	776B/46-49-53	841F/47-49-53	857F/47-49-53
		753**49-51-55	780**59-63-66	783**61-65-68
37	764	768B/48-50-55	856F/48-50-55	862F/49-50-55
		765**48-51-55	790**57-60-64	790**57-60-64
34	784	771B/48-51-55	862F/50-52-56	862F/50-52-56
			790**52-54-58	790**52-54-58
31	802	776B/48-51-56	862F/50-52-57	862F/50-52-57
28	819	781B/48-51-57	862F/49-52-57	862F/50-52-57
25	823	785B/48-51-57	862F/49-52-57	862F/50-52-57
22	824	789B/48-52-57	862F/49-52-57	862F/50-52-57
19	825	796B/48-52-57	862F/49-52-57	862F/50-52-57
16	825	804B/48-52-57	862F/49-52-57	862F/50-52-57
13	826	812B/48-52-57	862F/49-52-57	862F/50-52-57
10	827	820B/48-52-57	862F/49-52-57	862F/50-52-57
5	828	834B/48-52-57	862F/49-52-57	862F/50-52-57
0	829	848B/49-52-57	862F/50-52-57	862F/50-52-57
-5	830	862F/49-52-57	862F/50-52-57	862F/50-52-57
-10	830	862F/49-52-57	862F/50-52-57	862F/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3650 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.21 PERCENT FOR TODA AND -0.21 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/H2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 03/Z1 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	622	676F/36-37-40 649**47-49-52	715F/37-37-40 654**50-52-55	729F/37-37-40 654**50-52-55
58A	638	689F/38-39-42 664**48-50-53	729F/38-39-42 671**51-53-56	743F/39-39-42 671**52-53-56
55A	654	703F/39-40-44 679**48-50-54	744F/40-40-44 687**53-55-58	758F/40-40-44 687**53-55-58
52A	670	717F/40-42-45 694**49-51-55	758F/41-42-45 705**54-57-60	772F/42-42-45 705**55-57-60
49	688	732F/42-43-47 711**50-52-56	774F/43-43-47 724**56-59-62	789F/43-43-47 724**56-59-62
46	707	747F/44-45-49 728**50-53-57	790F/44-45-49 744**58-61-64	805F/45-45-49 744**58-61-64
43	726	762F/45-47-51 741**50-52-56	806F/46-47-51 763**59-62-66	821F/46-47-51 763**60-63-66
40	744	776F/46-49-53 753**49-51-55	823F/47-49-53 780**59-63-66	838F/47-49-53 783**61-65-68
37	764	768B/48-50-55 765**48-51-55	838F/48-50-55 790**57-60-64	854F/49-50-55 790**57-60-64
34	784	771B/48-51-55 790**52-54-58	853F/50-52-56 862F/50-52-56	862F/50-52-56 790**52-54-58
31	802	776B/48-51-56 802	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
28	819	781B/48-51-57 823	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
25	823	785B/48-51-57 824	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
22	824	789B/48-52-57 825	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
19	825	796B/48-52-57 825	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
16	825	804B/48-52-57 826	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
13	826	812B/48-52-57 827	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
10	827	820B/48-52-57 828	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
5	828	834B/48-52-57 829	862F/49-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
0	829	848B/49-52-57 830	862F/50-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
-5	830	862F/49-52-57 830	862F/50-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
-10				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3450 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.21 PERCENT FOR TODA AND -0.21 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03/Z1 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20L ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	622	626*/36-37-40 649**49-51-54	640*/37-37-40 654**50-52-55	644*/37-37-40 654**50-52-55
58A	638	641*/38-39-42 664**50-53-56	655*/39-39-42 671**52-53-56	659*/39-39-42 671**52-53-56
55A	654	657*/39-40-44 680**51-54-57	671*/40-40-44 687**53-55-58	676*/40-40-44 687**53-55-58
52A	670	673*/41-42-45 695**52-54-58	688*/42-42-45 705**55-57-60	692*/42-42-45 705**55-57-60
49	688	691*/42-43-47 712**52-55-58	706*/43-43-47 724**56-59-62	711*/43-43-47 724**57-59-62
46	707	709*/44-45-49 727**51-54-58	724*/45-45-49 744**58-61-64	729*/45-45-49 744**58-61-64
43	726	727*/45-47-51 740**50-53-57	743*/46-47-51 763**60-63-66	748*/46-47-51 763**60-63-66
40	744	745*/47-49-53 753**49-52-56	761*/47-49-53 780**60-63-67	766*/48-49-53 783**62-65-68
37	764	764*/48-50-55 765**48-51-55	780*/49-50-55 790**57-60-64	785*/49-50-55 790**58-60-64
34	784	772B/48-51-55	800*/50-52-56 790**52-54-58	805*/51-52-56 790**52-54-58
31	802	777B/48-51-56	817*/50-52-57	822*/51-52-57
28	819	782B/48-51-57	831*/50-52-57	837*/50-52-57
25	823	786B/48-52-57	836*/50-52-57	842*/50-52-57
22	824	790B/49-52-57	837*/50-52-57	843*/50-52-57
19	825	798B/49-52-57	838*/50-52-57	844*/50-52-57
16	825	806B/49-52-57	839*/50-52-57	845*/50-52-57
13	826	814B/49-52-57	840*/50-52-57	846*/50-52-57
10	827	823B/49-52-57	841*/50-52-57	847*/50-52-57
5	828	825*/49-52-57	843*/50-52-57	849*/50-52-57
0	829	827*/49-52-57	845*/50-52-57	850*/50-52-57
-5	830	828*/49-52-57	846*/50-52-57	852*/50-52-57
-10	830	829*/49-52-57	847*/50-52-57	853*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20L 223 4612 0 213 4626 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20L/E7 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	622	617*/36-36-40 621**37-38-41	632*/37-37-40 643**45-46-49	637*/37-37-40 649**47-49-51
58A	638	632*/37-38-41 634**38-39-42	647*/39-39-42 657**46-46-49	652*/39-39-42 663**48-49-52
55A	654	647F/39-39-43	663*/40-40-44 672**46-47-50	668*/40-40-44 678**49-50-53
52A	670	660F/40-41-44	679*/42-42-45 686**47-48-51	684*/42-42-45 693**50-51-54
49	688	673F/41-42-46	697*/43-43-47 703**48-49-52	703*/43-43-47 710**51-52-55
46	707	687F/42-43-47	715*/45-45-49 720**49-50-53	721*/45-45-49 727**51-53-56
43	726	701F/43-44-49	733*/46-47-51 736**49-51-54	739*/46-47-51 744**52-54-57
40	744	715F/44-45-50	752*/47-49-53 753**50-52-56	757*/48-49-53 761**53-55-58
37	764	730F/44-47-52	770*/49-50-55 770**51-52-57	776*/49-50-55 778**54-55-59
34	784	744F/45-48-53	790*/50-52-56 788**51-53-58	796*/51-52-56 790**52-54-58
31	802	756F/46-49-54	805F/50-52-57	812*/51-52-57
28	819	767F/46-50-55	817F/50-52-57	827*/50-52-57
25	823	772F/47-50-56	823F/50-52-57	831*/50-52-57
22	824	776F/47-50-56	826*/50-52-57	833*/50-52-57
19	825	779F/48-51-57	828*/50-52-57	834*/50-52-57
16	825	783F/48-51-57	829*/50-52-57	835*/50-52-57
13	826	787F/48-52-57	830*/50-52-57	836*/50-52-57
10	827	790F/49-52-57	831*/50-52-57	837*/50-52-57
5	828	797F/49-52-57	833*/50-52-57	839*/50-52-57
0	829	803F/49-52-57	834*/50-52-57	840*/50-52-57
-5	830	810F/49-52-57	836*/50-52-57	842*/50-52-57
-10	830	817F/49-52-57	837*/50-52-57	843*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2955 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20L/E7 223 4612 0 213 4626 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20L/E8 ZUCK

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
OAT	CLIMB	C 100KG	-10	0	10	
61A	622	622*/36-37-40	636*/37-37-40	640*/37-37-40		
		636**43-44-47	654**50-52-55	654**50-52-55		
58A	638	637*/38-38-42	651*/39-39-42	656*/39-39-42		
		650**44-45-48	670**51-53-56	671**52-53-56		
55A	654	652*/39-40-44	667*/40-40-44	672*/40-40-44		
		664**44-46-49	685**52-54-57	687**53-55-58		
52A	670	668*/41-41-45	683*/42-42-45	688*/42-42-45		
		679**45-47-50	701**53-55-58	705**55-57-60		
49	688	686*/42-43-47	701*/43-43-47	706*/43-43-47		
		695**46-48-51	718**54-56-59	724**57-59-62		
46	707	703*/44-45-49	720*/45-45-49	725*/45-45-49		
		712**47-49-52	736**54-56-60	741**57-60-63		
43	726	721*/45-46-51	738*/46-47-51	743*/46-47-51		
		728**47-49-53	753**55-57-61	759**58-60-64		
40	744	739*/46-48-52	756*/47-49-53	761*/48-49-53		
		745**48-50-54	770**56-58-62	776**58-61-65		
37	764	758*/47-50-54	775*/49-50-55	780*/49-50-55		
		761**49-51-55	787**56-59-63	790**58-60-64		
34	784	772B/48-51-55	795*/50-52-56	800*/51-52-56		
			790**52-54-58	790**52-54-58		
31	802	777B/48-51-56	811*/50-52-57	817*/51-52-57		
28	819	782B/48-51-57	826*/50-52-57	832*/50-52-57		
25	823	786B/48-52-57	830*/50-52-57	836*/50-52-57		
22	824	790B/49-52-57	831*/50-52-57	837*/50-52-57		
19	825	798B/49-52-57	833*/50-52-57	839*/50-52-57		
16	825	806B/49-52-57	834*/50-52-57	840*/50-52-57		
13	826	814B/49-52-57	835*/50-52-57	841*/50-52-57		
10	827	818*/49-52-57	836*/50-52-57	842*/50-52-57		
5	828	819*/49-52-57	837*/50-52-57	844*/50-52-57		
0	829	821*/49-52-57	839*/50-52-57	845*/50-52-57		
-5	830	822*/49-52-57	841*/50-52-57	847*/50-52-57		
-10	830	823*/49-52-57	842*/50-52-57	848*/50-52-57		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3250 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20L/E8 223 4612 0 213 4626 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20L/E9 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	622	624*/36-37-40	637*/37-37-40	642*/37-37-40
		642**46-48-51	654**50-52-55	654**50-52-55
58A	638	639*/38-39-42	653*/39-39-42	657*/39-39-42
		657**47-48-52	671**52-53-56	671**52-53-56
55A	654	654*/39-40-44	669*/40-40-44	674*/40-40-44
		672**47-49-52	687**53-55-58	687**53-55-58
52A	670	670*/41-42-45	685*/42-42-45	690*/42-42-45
		687**48-50-53	705**55-57-60	705**55-57-60
49	688	688*/42-43-47	703*/43-43-47	708*/43-43-47
		703**49-51-54	724**56-59-62	724**57-59-62
46	707	706*/44-45-49	722*/45-45-49	727*/45-45-49
		720**50-52-56	742**57-60-63	744**58-61-64
43	726	724*/45-47-51	740*/46-47-51	745*/46-47-51
		736**50-53-56	759**58-60-64	763**60-63-66
40	744	742*/46-48-52	758*/47-49-53	763*/48-49-53
		750**50-52-56	777**58-61-65	782**61-64-68
37	764	760*/48-50-54	777*/49-50-55	782*/49-50-55
		763**49-51-55	790**57-60-64	790**58-60-64
34	784	772B/48-51-55	797*/50-52-56	802*/51-52-56
		790**52-54-58	790**52-54-58	790**52-54-58
31	802	777B/48-51-56	814*/50-52-57	819*/51-52-57
28	819	782B/48-51-57	828*/50-52-57	834*/50-52-57
25	823	786B/48-52-57	833*/50-52-57	839*/50-52-57
22	824	790B/49-52-57	834*/50-52-57	840*/50-52-57
19	825	798B/49-52-57	835*/50-52-57	841*/50-52-57
16	825	806B/49-52-57	836*/50-52-57	842*/50-52-57
13	826	814B/49-52-57	837*/50-52-57	843*/50-52-57
10	827	820*/49-52-57	838*/50-52-57	844*/50-52-57
5	828	822*/49-52-57	840*/50-52-57	846*/50-52-57
0	829	823*/49-52-57	842*/50-52-57	848*/50-52-57
-5	830	825*/49-52-57	843*/50-52-57	849*/50-52-57
-10	830	826*/49-52-57	844*/50-52-57	850*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20L/E9 223 4612 0 213 4626 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 21 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26				
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 622	699F/37-37-40	732F/37-37-40	744F/37-37-40	
	654**50-52-55	654**50-52-55	654**50-52-55	
58A 638	713F/38-39-42	747F/39-39-42	759F/39-39-42	
	671**51-53-56	671**52-53-56	671**52-53-56	
55A 654	728F/40-40-44	763F/40-40-44	775F/40-40-44	
	687**53-55-58	687**54-55-58	687**54-55-58	
52A 670	742F/41-42-45	778F/42-42-45	790F/42-42-45	
	703**54-56-59	705**55-57-60	705**55-57-60	
49 688	757F/43-43-47	795F/43-43-47	808F/43-43-47	
	717**53-55-58	724**57-59-62	724**57-59-62	
46 707	771F/44-45-49	813F/45-45-49	826F/45-45-49	
	729**52-54-57	744**58-61-64	744**59-61-64	
43 726	785F/46-47-51	830F/46-47-51	843F/47-47-51	
	741**51-53-56	763**60-63-66	763**60-63-66	
40 744	779B/47-49-53	845F/48-49-53	861F/48-49-53	
	754**50-52-56	780**60-63-67	783**62-65-68	
37 764	770B/48-50-55	860F/49-50-55	862F/49-50-55	
	765**49-51-55	790**58-60-64	790**58-60-64	
34 784	772B/48-51-55	862F/51-52-56	862F/51-52-56	
		790**52-54-58	790**53-54-58	
31 802	778B/48-51-56	862F/51-52-57	862F/51-52-57	
28 819	783B/48-51-57	862F/50-52-57	862F/50-52-57	
25 823	787B/49-52-57	862F/50-52-57	862F/50-52-57	
22 824	792B/49-52-57	862F/50-52-57	862F/50-52-57	
19 825	800B/49-52-57	862F/50-52-57	862F/50-52-57	
16 825	808B/49-52-57	862F/50-52-57	862F/50-52-57	
13 826	816B/49-52-57	862F/50-52-57	862F/50-52-57	
10 827	824B/49-52-57	862F/50-52-57	862F/50-52-57	
5 828	839B/49-52-57	862F/50-52-57	862F/50-52-57	
0 829	853B/49-52-57	862F/50-52-57	862F/50-52-57	
-5 830	862F/49-52-57	862F/50-52-57	862F/50-52-57	
-10 830	862F/49-52-57	862F/50-52-57	862F/51-52-57	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.21 PERCENT FOR TODA AND 0.21 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 21/H6 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	622	687F/37-37-40 654**50-52-54	720F/37-37-40 654**50-52-55	732F/37-37-40 654**50-52-55
58A	638	701F/38-39-42 669**50-52-55	735F/39-39-42 671**52-53-56	747F/39-39-42 671**52-53-56
55A	654	715F/40-40-44 684**51-53-56	750F/40-40-44 687**54-55-58	762F/40-40-44 687**54-55-58
52A	670	729F/41-42-45 700**52-54-57	765F/42-42-45 705**55-57-60	778F/42-42-45 705**55-57-60
49	688	744F/43-43-47 717**53-55-58	782F/43-43-47 724**57-59-62	795F/43-43-47 724**57-59-62
46	707	760F/44-45-49 729**52-54-57	800F/45-45-49 744**58-61-64	812F/45-45-49 744**59-61-64
43	726	773F/46-47-51 741**51-53-56	817F/46-47-51 763**60-63-66	830F/47-47-51 763**60-63-66
40	744	779B/47-49-53 754**50-52-56	832F/48-49-53 780**60-63-67	847F/48-49-53 783**62-65-68
37	764	770B/48-50-55 765**49-51-55	847F/49-50-55 790**58-60-64	862F/49-50-55 790**58-60-64
34	784	772B/48-51-55 790**52-54-58	862F/51-52-56 790**53-54-58	862F/51-52-56 790**53-54-58
31	802	778B/48-51-56 800B/49-52-57	862F/51-52-57 862F/50-52-57	862F/51-52-57 862F/50-52-57
28	819	783B/48-51-57 808B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
25	823	787B/49-52-57 816B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
22	824	792B/49-52-57 824B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
19	825	800B/49-52-57 808B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
16	825	816B/49-52-57 824B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
13	826	824B/49-52-57 839B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
10	827	839B/49-52-57 853B/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
5	828	853B/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
0	829	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
-5	830	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57
-10	830	862F/49-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57	862F/51-52-57 862F/51-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3650 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.21 PERCENT FOR TODA AND 0.21 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21/H6 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20R ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26				
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	622	649F/36-37-40 637**42-43-46	687F/37-37-40 654**50-51-54	701F/37-37-40 654**50-52-55
58A	638	661F/38-39-42	701F/39-39-42	714F/39-39-42
55A	654	650**42-44-47	668**51-52-55	671**52-53-56
		674F/39-40-44 665**43-44-48	714F/40-40-44 684**51-53-56	728F/40-40-44 687**53-55-58
52A	670	687F/41-42-45 679**44-45-49	728F/42-42-45 699**52-54-57	742F/42-42-45 704**55-57-60
49	688	701F/42-43-47	744F/43-43-47	758F/43-43-47
		696**45-46-50	716**53-55-58	722**56-58-61
46	707	716F/44-45-49 712**45-47-51	759F/45-45-49 734**53-55-59	774F/45-45-49 740**56-59-62
43	726	730F/45-47-51	775F/46-47-51	789F/46-47-51
		728**46-48-52	751**54-56-60	757**57-59-63
40	744	745F/47-49-53	790F/47-49-53	806F/48-49-53
			767**55-57-61	775**58-60-64
37	764	760F/48-50-54	807F/49-50-55 785**55-58-62	822F/49-50-55 790**58-60-64
34	784	772B/48-51-55	823F/50-52-56 790**52-54-58	839F/51-52-56 790**52-54-58
31	802	777B/48-51-56	837F/50-52-57	853F/51-52-57
28	819	782B/48-51-57	849F/50-52-57	862F/50-52-57
25	823	786B/48-52-57	855F/50-52-57	862F/50-52-57
22	824	790B/49-52-57	859F/50-52-57	862F/50-52-57
19	825	798B/49-52-57	862F/50-52-57	862F/50-52-57
16	825	806B/49-52-57	862F/50-52-57	862F/50-52-57
13	826	814B/49-52-57	862F/50-52-57	862F/50-52-57
10	827	821F/49-52-57	862F/50-52-57	862F/50-52-57
5	828	828F/49-52-57	862F/50-52-57	862F/50-52-57
0	829	835F/49-52-57	862F/50-52-57	862F/50-52-57
-5	830	841F/49-52-57	862F/50-52-57	862F/50-52-57
-10	830	848F/49-52-57	862F/50-52-57	862F/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20R/A10 ZUCK

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIANGBEIJICHANG
CQ/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	622	629F/36-37-40 626**38-38-41	667F/37-37-40 646**46-47-50	680F/37-37-40 651**48-50-53
58A	638	640F/38-39-42 639**38-39-42	680F/39-39-42 660**46-48-51	694F/39-39-42 665**49-50-54
55A	654	653F/39-40-44	693F/40-40-44 674**47-48-52	707F/40-40-44 681**50-51-54
52A	670	665F/40-41-45	707F/42-42-45 689**48-49-53	721F/42-42-45 696**51-52-55
49	688	679F/41-42-46	722F/43-43-47 706**49-50-54	736F/43-43-47 713**52-53-56
46	707	693F/42-44-48	736F/45-45-49 722**50-51-55	751F/45-45-49 730**52-54-57
43	726	707F/43-45-49	751F/46-47-51 739**50-52-56	766F/46-47-51 746**53-55-58
40	744	721F/44-46-51	766F/47-49-53 756**51-53-57	782F/48-49-53 764**54-56-60
37	764	736F/45-47-52	782F/49-50-55 774**52-54-58	798F/49-50-55 781**55-57-61
34	784	750F/46-48-54	798F/50-52-56 790**52-54-58	815F/51-52-56 790**52-54-58
31	802	762F/46-49-55	812F/50-52-57	829F/51-52-57
28	819	773F/47-50-56	824F/50-52-57	841F/50-52-57
25	823	778F/48-51-56	830F/50-52-57	847F/50-52-57
22	824	782F/48-51-57	834F/50-52-57	851F/50-52-57
19	825	786F/48-52-57	838F/50-52-57	855F/50-52-57
16	825	789F/49-52-57	842F/50-52-57	860F/50-52-57
13	826	793F/49-52-57	846F/50-52-57	862F/50-52-57
10	827	797F/49-52-57	850F/50-52-57	862F/50-52-57
5	828	804F/49-52-57	857F/50-52-57	862F/50-52-57
0	829	810F/49-52-57	862F/50-52-57	862F/50-52-57
-5	830	817F/49-52-57	862F/50-52-57	862F/50-52-57
-10	830	823F/49-52-57	862F/50-52-57	862F/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20R/A10 NONE

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3737 FT

RUNWAY 01

ZUGY

*** FLAPS 05 ***		AIR COND AUTO	ANTI-ICE OFF	LONGDONGBAO GY/SOUTHWEST	
OAT	CLIMB	DATE 10-JUN-2019			
737-800 CFM56-7B26				DATED 10-JUN-2019	
		INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10	0	10	
61A	575	528*/26-26-30	543*/28-28-31	548*/28-28-32	
		545**36-38-41	561**39-40-43	567**40-41-44	
58A	590	542*/27-27-31	557*/29-29-33	562*/30-30-34	
		559**38-39-43	575**41-42-45	581**42-42-46	
55A	605	556*/29-29-33	571*/31-31-35	576*/31-31-35	
		573**39-41-45	590**42-43-47	595**43-44-48	
52A	621	570*/30-30-35	585*/32-32-36	590*/33-33-37	
		587**41-43-47	604**44-45-49	610**45-46-49	
49A	636	583*/32-32-36	599*/34-34-38	604*/34-34-39	
		601**42-44-48	618**46-47-50	624**47-47-51	
46	652	597*/33-33-38	613*/35-35-40	619*/36-36-40	
		616**44-46-50	633**47-48-52	639**48-49-53	
43	669	612*/35-35-40	629*/37-37-41	634*/38-38-42	
		631**45-48-52	649**49-50-54	655**50-51-55	
40	686	627*/36-36-42	644*/38-38-43	650*/39-39-44	
		646**47-49-54	665**50-52-56	671**51-52-57	
37	704	643*/37-38-43	660*/40-40-45	666*/41-41-45	
		661**48-50-55	681**52-53-58	687**53-54-58	
34	723	659*/39-40-45	677*/42-42-47	683*/42-42-47	
		677**48-51-56	699**53-55-60	705**54-56-60	
31	738	672*/40-41-46	690*/43-43-48	696*/44-44-49	
		690**49-51-56	713**54-57-61	720**55-57-62	
28	752	684*/41-42-48	702*/44-44-49	708*/45-45-50	
		701**49-52-57	725**55-58-62	732**56-59-63	
25	762	693*/42-43-49	712*/45-45-50	718*/45-45-51	
		710**50-52-58	735**56-59-63	742**57-60-64	
22	769	700*/42-43-49	718*/45-45-51	725*/46-46-51	
		716**50-52-58	743**57-59-64	750**58-60-65	
19	770	700*/42-43-49	719*/45-45-51	725*/46-46-51	
		718**50-53-58	743**57-60-64	751**58-60-65	
16	771	701*/42-43-49	720*/45-46-51	726*/46-46-52	
		719**51-54-59	744**57-60-64	751**58-60-65	
13	771	702*/42-44-49	721*/45-46-51	727*/46-46-52	
		721**52-55-60	745**57-60-64	752**58-61-65	
10	772	702*/43-44-50	721*/45-46-51	728*/46-46-52	
		723**52-55-61	746**57-60-65	753**58-61-65	
5	772	703*/43-44-50	722*/46-46-51	729*/46-46-52	
		725**54-57-62	747**57-60-65	755**59-61-65	
0	773	704*/43-44-50	723*/46-46-51	730*/47-47-52	
		727**54-58-63	749**58-60-65	756**59-61-66	
-5	774	705*/43-44-50	724*/46-46-51	731*/47-47-52	
		728**54-58-63	750**58-60-65	757**59-61-66	
-10	774	706*/43-44-50	725*/46-46-52	732*/47-47-52	
		729**55-58-63	751**58-60-65	758**59-61-66	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 850 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 220 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE 0.50 PERCENT FOR TODA AND -0.50 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
01	364	6490	0	387	6650	0	551	6845	0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3737 FT

RUNWAY 19 ZUGY

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	LONGDONGBAO GY/SOUTHWEST
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 575	527*/26-26-30	544*/28-28-32	550*/29-29-32
	537**35-37-40	556**39-39-43	562**40-40-43
58A 590	540*/27-27-31	557*/29-29-33	563*/30-30-34
	550**36-38-42	569**40-41-44	576**41-42-45
55A 605	553*/28-28-33	571*/31-31-35	577*/32-32-35
	563**38-40-44	583**41-42-46	590**43-43-47
52A 621	567*/30-30-35	585*/32-32-36	591*/33-33-37
	576**39-41-45	597**43-44-48	604**44-45-49
49A 636	580*/31-31-36	598*/34-34-38	605*/35-35-39
	589**41-43-47	610**44-46-49	617**46-46-50
46 652	593*/33-33-38	613*/35-35-40	619*/36-36-40
	602**42-44-49	624**46-47-51	631**47-48-52
43 669	608*/34-34-39	628*/37-37-41	634*/38-38-42
	617**43-46-50	639**47-49-53	646**49-50-54
40 686	623*/35-36-41	643*/38-38-43	649*/39-39-44
	631**45-47-52	654**49-50-55	662**50-51-56
37 704	638*/37-37-43	659*/40-40-45	665*/41-41-45
	646**46-49-54	670**50-52-57	678**52-53-57
34 723	654*/38-39-45	675*/41-41-47	682*/42-42-47
	662**48-51-56	687**52-54-58	695**53-55-59
31 738	667*/39-40-46	689*/43-43-48	696*/43-43-49
	675**49-52-57	700**53-55-60	709**54-56-61
28 752	678*/40-41-47	700*/44-44-49	708*/45-45-50
	687**50-53-58	712**54-56-61	721**55-57-62
25 762	687*/41-42-48	710*/44-45-50	717*/45-45-51
	696**50-53-58	722**55-57-62	730**56-58-63
22 769	694*/41-43-49	717*/45-45-51	724*/46-46-51
	702**50-53-58	729**55-58-63	738**57-59-64
19 770	695*/42-43-49	718*/45-45-51	725*/46-46-51
	704**50-53-59	730**55-58-63	739**57-59-64
16 771	696*/42-43-49	719*/45-45-51	726*/46-46-52
	705**51-54-59	732**56-58-63	741**57-59-64
13 771	697*/42-43-49	720*/45-46-51	727*/46-46-52
	707**52-55-61	733**56-58-63	742**57-59-64
10 772	698*/42-43-49	721*/45-46-51	728*/46-46-52
	708**52-55-61	735**56-59-63	744**57-60-64
5 772	700*/42-43-49	723*/46-46-51	730*/47-47-52
	710**52-56-61	737**56-59-64	746**58-60-65
0 773	701*/43-43-49	724*/46-46-51	732*/47-47-52
	713**53-56-61	739**57-59-64	748**58-60-65
-5 774	703*/43-44-50	726*/46-46-52	734*/47-47-52
	715**53-56-61	742**57-59-64	750**58-60-65
-10 774	704*/43-44-50	727*/46-46-52	735*/47-47-52
	717**53-56-62	744**57-59-64	753**58-60-65

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1060 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 220 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.50 PERCENT FOR TODA AND -0.50 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19 223 2380 0 361 4450 0 404 5120 0
 443 5535 0 702 9970 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1683 FT

RUNWAY 02L ZUUU

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				SHUANGLIUIJICHANG CD/SOUTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	616	598*/33-34-38 609**41-42-46	615*/36-36-39 631**47-49-52	620*/36-36-39 638**48-50-53
58A	631	612*/35-36-39 623**41-43-47	630*/38-38-41 646**48-50-53	635*/38-38-41 653**50-51-54
55A	647	627*/36-37-41 637**43-45-48	645*/39-39-43 661**50-51-55	650*/40-40-43 668**51-53-56
52A	663	642*/38-39-43 651**44-46-50	660*/41-41-44 676**50-52-56	666*/41-41-45 684**53-54-58
49	681	658*/39-40-44 666**44-47-51	677*/42-42-46 692**51-53-57	683*/43-43-47 701**54-56-59
46	699	675*/40-42-46 682**45-47-51	694*/44-44-48 709**52-54-58	701*/44-44-48 718**54-56-60
43	718	692*/42-43-48 698**46-48-52	712*/45-45-50 726**53-55-59	718*/46-46-50 735**55-57-61
40	736	709*/43-45-50 714**46-48-53	729*/46-47-51 743**54-56-60	736*/47-48-52 752**56-58-62
37	755	726*/44-46-51 731**47-49-54	747*/47-49-53 760**54-57-61	754*/48-49-54 770**57-59-63
34	776	744*/46-48-53 748**47-50-55	766*/49-50-55 778**55-58-62	773*/50-51-55 788**57-60-64
31	794	761*/47-49-55 763**48-51-56	783*/50-52-57 790**53-55-60	790*/51-52-57
28	810	775*/48-51-56 782B/48-51-57	797*/50-52-57 804*/50-52-57	804*/50-52-57 810*/50-52-57
25	817	783*/48-51-57	805*/50-52-57	812*/50-52-57
22	818	785*/48-52-57	806*/50-52-57	813*/50-52-57
19	818	786**49-53-58		
16	819	786*/49-52-57 789**50-53-58	807*/50-52-57	814*/50-52-57
13	820	787*/49-52-57 790**50-53-59	808*/50-52-57	815*/50-52-57
10	820	788*/49-52-57 790**50-53-58	810*/50-52-57	816*/50-52-57
5	821	791*/49-52-57	811*/50-52-57	818*/50-52-57
0	822	792*/49-52-57	813*/50-52-57	820*/50-52-57
-5	823	794*/49-52-57	815*/50-52-57	822*/50-52-57
-10	823	795*/49-52-57	816*/50-52-57	823*/51-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 600 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=-OBSTACLE/LEVEL-OFF, **=-IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
02L	69	650	0	72	770	0	75	810	0
	98	1792	0	112	1980	0	131	2350	0
	174	2357	0	364	8650	0			

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ELEVATION 1683 FT

RUNWAY 02L/A2 ZUUU

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF
 SHUANGLIJICHANG
 CD/SOUTHWEST
 DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	616	589*/32-33-37	606*/35-35-39	612*/36-36-39
		590**35-37-41	615**41-42-46	623**43-43-47
58A	631	602*/33-34-38	621*/37-37-40	627*/37-37-41
		628**43-44-47	637**44-45-48	
55A	647	616*/35-36-40	636*/38-38-42	642*/39-39-42
		642**43-45-48	651**46-47-50	
52A	663	629*/36-37-41	651*/40-40-44	657*/40-40-44
		656**45-46-50	665**46-48-51	
49	681	644*/37-39-43	667*/41-41-45	674*/42-42-46
		672**45-46-50	681**47-48-52	
46	699	659*/39-40-45	684*/42-43-47	691*/43-44-48
		688**46-47-52	697**48-49-53	
43	718	675*/40-41-46	701*/44-44-49	708*/45-45-49
		704**46-47-52	713**49-50-54	
40	736	690*/41-43-48	718*/45-46-50	725*/46-47-51
		720**47-49-53	730**50-51-56	
37	755	706*/42-44-50	735*/46-47-52	743*/47-48-53
		736**48-50-54	746**51-52-57	
34	776	723*/43-46-51	753*/47-49-54	762*/49-50-55
		754**49-51-56	765**51-53-58	
31	794	738*/44-47-53	769*/48-50-55	779*/50-51-56
		770**50-53-58	781**52-54-59	
28	810	750*/45-48-54	783*/49-51-57	793*/50-52-57
25	817	757*/46-49-55	790*/50-52-57	799*/50-52-57
22	818	759*/46-49-55	792*/50-52-57	801*/50-52-57
19	818	761*/46-49-55	794*/50-52-57	802*/50-52-57
16	819	763*/46-49-55	795*/50-52-57	804*/50-52-57
13	820	765*/47-49-55	797*/50-52-57	805*/50-52-57
10	820	768*/47-50-56	799*/50-52-57	806*/50-52-57
5	821	771*/47-50-56	801*/50-52-57	808*/50-52-57
0	822	775*/48-50-56	803*/50-52-57	810*/50-52-57
-5	823	778*/48-51-56	805*/50-52-57	812*/50-52-57
-10	823	781*/48-51-57	806*/50-52-57	813*/51-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 580 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	OBS	FROM LO-FT/M
02L/A2	69	650	0	72	770	0	75	810 0
	98	1792	0	112	1980	0	131	2350 0
	174	2357	0	364	8650	0		

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ELEVATION 1683 FT

RUNWAY 02R ZUUU

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				SHUANGLIJICHANG CD/SOUTHWEST DATED 10-JUN-2019	
737-800 CFM56-7B26		OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10
61A 616	607*/34-35-39	623*/36-36-39	629*/36-36-39		
	621**44-47-51	640**48-50-53	647**49-51-54		
58A 631	621*/35-37-40	638*/38-38-41	644*/38-38-41		
	635**46-49-52	655**49-52-55	662**50-52-55		
55A 647	636*/37-38-42	654*/39-40-43	659*/39-40-43		
	650**47-51-54	671**51-53-56	678**52-54-57		
52A 663	651*/38-40-44	669*/40-41-45	675*/41-41-45		
	665**49-52-56	687**52-55-58	694**53-56-59		
49 681	668*/40-41-45	686*/42-43-47	692*/42-43-47		
	681**50-54-58	704**54-56-60	711**55-57-61		
46 699	685*/41-43-47	704*/44-44-48	710*/44-44-48		
	698**51-55-59	721**55-58-62	729**56-59-63		
43 718	702*/42-44-49	721*/45-46-50	728*/45-46-50		
	714**52-56-60	739**56-60-64	747**58-61-64		
40 736	719*/44-46-50	739*/46-48-52	746*/47-48-52		
	730**50-54-58	756**58-61-65	764**59-62-66		
37 755	736*/45-47-52	757*/48-49-54	764*/48-49-54		
	744**49-53-57	774**59-63-67	782**60-64-68		
34 776	755*/46-49-54	777*/49-51-56	784*/49-51-56		
	759**48-51-56	790**56-60-64	790**54-56-60		
31 794	770B/47-50-55	794*/50-52-57	801*/50-52-57		
28 810	775B/47-51-56	807*/49-52-57	814*/50-52-57		
25 817	780B/47-51-56	813*/49-52-57	820*/50-52-57		
22 818	783B/48-51-57	815*/49-52-57	822*/50-52-57		
19 818	787B/48-52-57	816*/49-52-57	823*/50-52-57		
16 819	793B/48-52-57	817*/49-52-57	824*/50-52-57		
13 820	798*/48-52-57	819*/49-52-57	825*/50-52-57		
10 820	799*/48-52-57	820*/49-52-57	827*/50-52-57		
5 821	801*/48-52-57	822*/49-52-57	829*/50-52-57		
0 822	803*/48-52-57	824*/49-52-57	831*/50-52-57		
-5 823	804*/48-52-57	825*/50-52-57	833*/50-52-57		
-10 823	806*/49-52-57	827*/50-52-57	834*/50-52-57		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY					
	RUNWAY SLOPES ARE -0.40 PERCENT FOR TODA AND -0.40 PERCENT FOR ASDA					
LINE-UP DISTANCES:		19 M FOR TODA,	35 M FOR ASDA	OBS	FROM LO-FT/M	
	HT	DIST	OFFSET	HT	DIST	OFFSET
02R	59	1100	0	62	1460	0
	79	1560	0	112	2410	0
	197	2900	0	187	4601	0
					180	4406

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ELEVATION 1683 FT

RUNWAY 02R/E2 ZUUU

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF SHUANGLIUJICHANG
 737-800 CFM56-7B26 CD/SOUTHWEST
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	616	597*/33-34-38	614*/36-36-39	620*/36-36-39
		609**43-46-49	629**46-48-51	636**47-49-52
58A	631	611*/34-35-39	629*/37-38-41	635*/38-38-41
		623**44-47-51	644**48-50-53	651**49-51-54
55A	647	626*/35-37-41	644*/39-39-43	650*/39-40-43
		637**45-49-53	659**49-52-55	666**50-53-56
52A	663	640*/37-38-43	659*/40-41-44	666*/41-41-45
		652**47-50-54	674**51-53-57	681**52-54-57
49	681	657*/38-40-44	676*/41-42-46	683*/42-43-47
		667**47-51-55	691**52-55-58	698**53-56-59
46	699	673*/40-42-46	693*/43-44-48	700*/44-44-48
		684**48-52-56	708**53-57-60	716**55-57-61
43	718	690*/41-43-48	711*/44-45-50	717*/45-46-50
		700**49-52-57	725**55-58-62	733**56-59-63
40	736	707*/42-45-49	728*/45-47-51	735*/46-48-52
		716**49-53-57	742**56-60-64	750**57-61-65
37	755	724*/44-46-51	746*/47-48-53	753*/48-49-54
		732**50-54-58	759**57-61-65	768**59-62-66
34	776	742*/45-48-53	765*/48-50-55	772*/49-51-55
		748**49-53-58	778**58-62-66	787**60-64-68
31	794	758*/46-49-54	782*/49-52-56	789*/50-52-57
		762**48-52-57	790**54-57-62	
28	810	772*/47-50-56	796*/49-52-57	803*/50-52-57
		773**47-51-56		
25	817	779*/47-51-56	802*/49-52-57	809*/50-52-57
22	818	780*/47-51-57	803*/49-52-57	811*/50-52-57
		781**48-52-57		
19	818	782*/47-51-57	805*/49-52-57	812*/50-52-57
		784**48-52-58		
16	819	783*/48-51-57	806*/49-52-57	813*/50-52-57
		786**49-53-58		
13	820	785*/48-51-57	807*/49-52-57	814*/50-52-57
		788**50-54-59		
10	820	786*/48-52-57	808*/49-52-57	816*/50-52-57
		790**50-54-59		
5	821	788*/48-52-57	811*/49-52-57	818*/50-52-57
		790**49-53-58		
0	822	790*/48-52-57	813*/49-52-57	820*/50-52-57
-5	823	792*/48-52-57	814*/50-52-57	822*/50-52-57
-10	823	794*/49-52-57	816*/50-52-57	823*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
02R/E2	59	1100	0	62	1460	0	69	1470	0
	79	1560	0	112	2410	0	121	2700	0
	197	2900	0	187	4601	0	180	4406	0

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ELEVATION 1683 FT

RUNWAY 20L ZUUU

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				SHUANGLIJICHANG CD/SOUTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
58A	631	607*/34-35-39 617**44-46-50	624*/37-37-41 640**48-49-53	630*/38-38-41 647**49-50-54
55A	647	622*/36-36-40 631**45-47-51	639*/39-39-42 654**49-51-55	645*/39-39-43 662**51-52-55
52A	663	636*/37-38-42 645**45-47-51	655*/40-40-44 669**51-53-56	661*/41-41-44 677**52-54-57
49	681	652*/39-40-44 661**46-49-53	671*/42-42-46 686**52-54-58	678*/42-42-46 694**53-55-59
46	699	669*/40-41-46 677**47-49-54	689*/43-43-47 702**54-56-60	695*/44-44-48 711**55-57-61
43	718	686*/41-43-47 694**48-50-55	706*/45-45-49 719**54-56-60	712*/46-46-50 728**56-59-62
40	736	702*/43-44-49 710**49-52-57	723*/46-46-51 736**55-57-61	730*/47-47-51 745**56-59-63
37	755	719*/44-46-51 725**50-53-58	741*/47-48-53 753**55-57-61	747*/48-49-53 762**57-59-63
34	776	738*/45-47-53 743**51-55-60	760*/48-50-54 771**56-59-64	767*/50-50-55 781**58-60-64
31	794	754*/46-49-54 758**50-53-59	777*/50-51-56 788**57-60-65	784*/51-52-57 790**53-55-59
28	810	768*/47-50-55 770**49-52-58	791*/51-52-57	798*/51-52-57
25	817	775*/48-51-56 777**49-52-58	797*/50-52-57	804*/51-52-57
22	818	776*/48-51-56 779**50-53-59	799*/50-52-57	805*/51-52-57
19	818	778*/48-51-56 781**51-54-59	800*/50-52-57	807*/51-52-57
16	819	779*/48-51-56 783**51-55-60	801*/50-52-57	808*/51-52-57
13	820	780*/48-51-57 785**52-55-61	802*/50-52-57	809*/51-52-57
10	820	781*/49-51-57 787**53-56-61	803*/50-52-57	810*/51-52-57
5	821	784*/49-51-57 790**54-57-62	805*/50-52-57	812*/51-52-57
0	822	786*/49-52-57 790**51-54-59	807*/51-52-57	814*/51-52-57
-5	823	787*/49-52-57 790**51-53-59	809*/51-52-57	815*/51-52-57
-10	823	789*/50-52-57 790**50-53-58	810*/51-52-57	817*/51-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY			RUNWAY SLOPES ARE 0.40 PERCENT FOR TODA AND 0.40 PERCENT FOR ASDA		
	LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M			RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET		
20L	39	470	0	56	640	0
	69	970	0	98	1150	0
	102	1160	0	112	1350	0
	92	1166	0	95	1432	0
	75	1155	0	75	1162	0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1683 FT

RUNWAY 20L/E8 ZUUU

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

SHUANGLIJICHANG

CD/SOUTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

58A	631	597*/33-34-38	616*/36-36-40	622*/37-37-40
		601**38-40-44	625**45-46-50	632**47-48-52
55A	647	610*/34-35-39	631*/37-37-41	637*/38-38-42
		615**40-42-46	639**46-47-51	647**48-49-53
52A	663	624*/36-36-41	645*/39-39-43	652*/40-40-44
		629**41-43-48	653**46-48-52	661**49-50-54
49	681	640*/37-38-43	662*/41-41-45	668*/41-41-45
		644**42-45-49	669**47-48-52	677**50-51-55
46	699	655*/38-40-44	679*/42-42-46	685*/43-43-47
		659**44-47-51	685**49-50-54	694**50-51-55
43	718	671*/40-41-46	695*/43-44-48	702*/44-44-49
		675**46-48-53	702**50-51-55	711**51-53-57
40	736	687*/41-42-48	712*/45-45-50	719*/46-46-51
		690**46-49-54	718**51-53-58	727**52-54-58
37	755	703*/42-44-49	729*/46-47-52	737*/47-48-52
		706**46-49-54	735**52-55-59	744**54-56-60
34	776	721*/44-45-51	747*/47-48-53	755*/48-49-54
		723**46-49-54	752**53-56-61	762**55-58-62
31	794	736*/45-47-53	763*/48-50-55	772*/49-51-56
		738**47-49-55	768**54-57-62	778**56-59-64
28	810	749*/45-48-54	777*/49-51-56	786*/50-52-57
		750**47-50-56	781**54-57-62	790**53-55-60
25	817	756*/46-49-55	784*/50-52-57	793*/51-52-57
		757**48-51-57	788**54-57-62	
22	818	758*/46-49-55	786*/50-52-57	795*/51-52-57
		759**48-51-57	790**54-57-62	
19	818	759*/46-49-55	788*/50-52-57	796*/51-52-57
		761**49-52-58	790**52-54-59	
16	819	761*/47-49-55	789*/50-52-57	798*/51-52-57
		763**49-52-58		
13	820	763*/47-49-55	791*/50-52-57	799*/51-52-57
		764**50-53-59		
10	820	764*/47-49-55	793*/50-52-57	800*/51-52-57
		766**50-54-59		
5	821	767*/47-50-55	795*/50-52-57	802*/51-52-57
		769**51-55-60		
0	822	770*/48-50-56	797*/51-52-57	804*/51-52-57
		773**52-56-61		
-5	823	772*/48-50-56	798*/51-52-57	806*/51-52-57
		776**53-57-63		
-10	823	775*/48-50-56	800*/51-52-57	807*/51-52-57
		779**54-58-63		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
20L/E8	39	470	0	56	640	0	49	890	0
	69	970	0	98	1150	0	52	1160	0
	102	1160	0	112	1350	0	148	1880	0
	92	1166	0	95	1432	0	95	1440	0
	75	1155	0	75	1162	0			

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1683 FT

RUNWAY 20R ZUUU

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				SHUANGLIJICHANG CD/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT C	100KG	-10	0	10
61A	616	615*/35-36-39 639**47-50-53	628*/36-36-39 647**49-51-54	632*/36-36-39 647**49-51-54
58A	631	630*/37-38-41 655**49-52-55	643*/38-38-41 663**51-53-56	648*/38-38-41 663**51-53-56
55A	647	646*/38-39-43 671**51-53-56	659*/39-40-43 680**52-54-57	664*/40-40-43 680**53-54-57
52A	663	662*/40-41-45 687**52-54-58	676*/41-41-45 697**54-56-59	680*/41-41-45 697**54-56-59
49	681	679*/41-43-46 703**52-55-58	693*/42-43-47 716**56-58-61	698*/43-43-47 716**56-58-61
46	699	697*/43-44-48 718**51-54-58	712*/44-44-48 736**57-60-63	716*/44-44-48 736**57-60-63
43	718	715*/44-46-50 731**50-53-57	730*/45-46-50 755**59-62-65	734*/46-46-50 755**59-62-65
40	736	732*/45-47-52 743**49-52-56	748*/47-48-52 773**60-63-66	753*/47-48-52 775**61-64-67
37	755	750*/47-49-53 755**48-51-55	766*/48-49-54 787**59-62-65	771*/48-49-54 790**60-63-67
34	776	767B/48-50-55 790**54-56-60	786*/49-51-56 803*/50-52-57	791*/50-51-56 809*/51-52-57
31	794	772B/48-51-56 810	803*/50-52-57 818*/50-52-57	823*/50-52-57 823*/50-52-57
28	810	777B/48-51-56 817	825*/50-52-57 826*/50-52-57	830*/50-52-57 831*/50-52-57
25	817	781B/48-51-57 818	826*/50-52-57 827*/50-52-57	831*/50-52-57 832*/50-52-57
22	818	785B/48-52-57 818	828*/50-52-57 827*/50-52-57	833*/50-52-57 833*/50-52-57
19	818	789B/49-52-57 819	828*/50-52-57 828*/50-52-57	834*/50-52-57 834*/50-52-57
16	819	795B/49-52-57 820	828*/50-52-57 829*/50-52-57	835*/50-52-57 835*/50-52-57
13	820	803B/49-52-57 820	831*/50-52-57 831*/50-52-57	836*/50-52-57 836*/50-52-57
10	820	812B/49-52-57 821	832*/50-52-57 832*/50-52-57	838*/50-52-57 838*/50-52-57
5	821	814*/49-52-57 822	833*/50-52-57 833*/50-52-57	839*/50-52-57 839*/50-52-57
0	822	815*/49-52-57 823	834*/50-52-57 834*/50-52-57	840*/50-52-57 840*/50-52-57
-5	823	816*/49-52-57 823	835*/50-52-57 835*/50-52-57	841*/50-52-57 841*/50-52-57
-10	823	817*/49-52-57 823	836*/50-52-57 836*/50-52-57	842*/50-52-57 842*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 590 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.08 PERCENT FOR TODA AND -0.08 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20R 89 2110 0 177 3983 0 180 4295 0
 358 7211 0

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 709 FT

RUNWAY 06

ZYCC

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				LONG JIAJICHANG CC/NORTHEAST
				DATED 10-JUN-2019
737-800	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT CLIMB	100KG	-10	0	10
61A	636	673F/37-38-42	714F/38-38-42	728F/38-38-42
		656**44-46-49	669**51-53-56	669**51-53-56
58A	652	686F/39-40-43	727F/39-40-43	742F/40-40-43
		670**45-47-50	685**52-55-58	685**53-55-58
55A	668	699F/40-42-45	741F/41-42-45	756F/41-42-45
		684**46-48-51	702**54-57-60	702**54-57-60
52	685	713F/41-43-47	756F/42-43-47	771F/43-43-47
		700**46-49-52	719**55-58-61	720**56-58-62
49	704	728F/43-45-49	772F/44-45-49	787F/44-45-49
		717**47-50-53	736**55-58-62	740**57-60-64
46	723	743F/44-47-51	788F/45-47-51	803F/45-47-51
		734**48-50-54	754**56-59-63	760**59-62-66
43	742	758F/46-48-52	804F/47-48-52	819F/47-48-52
		750**48-51-55	772**56-60-63	778**59-63-66
40	761	772F/47-50-54	820F/48-50-54	836F/48-50-54
		765**48-51-56	789**57-61-64	790**57-61-65
37	781	774B/48-51-56	837F/49-52-56	853F/50-52-56
			790**52-55-59	790**52-55-59
34	801	780B/48-51-56	851F/50-52-57	862F/50-52-57
31	820	785B/47-51-57	862F/49-52-57	862F/49-52-57
28	835	790B/47-52-57	862F/49-52-57	862F/49-52-57
25	836	797B/47-52-57	862F/49-52-57	862F/49-52-57
22	837	805B/47-52-58	862F/49-52-58	862F/49-52-58
19	838	813B/47-52-58	862F/49-52-58	862F/49-52-58
16	838	821B/47-52-58	862F/49-52-58	862F/49-52-58
13	839	829B/47-52-58	862F/49-52-58	862F/49-52-58
10	840	837B/47-52-58	862F/49-52-58	862F/49-52-58
5	841	851B/48-52-58	862F/49-52-58	862F/49-52-58
0	842	859F/48-52-58	862F/49-52-58	862F/49-52-58
-5	843	862F/48-52-58	862F/49-52-58	862F/49-52-58
-10	843	862F/48-52-58	862F/49-52-58	862F/49-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

=OBSTACLE/LEVEL-OFF, *=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.58 PERCENT FOR TODA AND -0.58 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 06 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 709 FT

RUNWAY 24 ZYCC

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			LONGJIAJICHANG CC/NORTHEAST	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			DATED 10-JUN-2019	
OAT	CLIMB	C 100KG	-10	0	10	
61A	636	595*/33-33-38	616*/36-36-40	623*/37-37-40		
		598**38-39-43	623**42-43-47	631**44-45-49		
58A	652	608*/34-35-39	630*/37-37-41	637*/38-38-42		
		611**39-41-45	636**44-45-48	644**45-46-50		
55A	668	622*/35-36-41	644*/39-39-43	651*/40-40-44		
		624**40-42-47	650**45-45-49	659**46-47-51		
52	685	636*/37-37-42	660*/40-40-45	667*/41-41-45		
		638**40-42-47	665**46-47-51	674**48-48-52		
49	704	652*/38-39-44	676*/42-42-46	684*/43-43-47		
		653**42-44-49	681**48-49-53	690**50-51-55		
46	723	668*/39-41-46	693*/43-43-48	701*/44-44-49		
		669**43-45-50	698**49-51-55	707**51-52-56		
43	742	684*/41-42-47	710*/45-45-50	718*/46-46-50		
		685**43-45-51	714**50-52-57	724**52-54-58		
40	761	700*/42-43-49	727*/46-46-51	736*/47-47-52		
			731**51-53-58	741**53-55-60		
37	781	717*/43-45-51	745*/47-48-53	754*/48-49-54		
			748**52-54-59	758**54-56-61		
34	801	733*/44-46-52	762*/48-49-55	772*/50-50-56		
			765**51-53-59	775**54-56-61		
31	820	748*/45-48-54	779*/49-51-56	788*/51-52-57		
			781**51-53-59	790**52-53-59		
28	835	760*/46-49-55	792*/50-52-57	800*/50-52-57		
25	836	762*/46-49-55	793*/50-52-57	802*/50-52-57		
22	837	765*/47-49-55	795*/50-52-58	803*/50-52-58		
19	838	767*/47-49-56	797*/50-52-58	805*/50-52-58		
16	838	768*/47-49-56	798*/50-52-58	806*/50-52-58		
13	839	770*/47-50-56	800*/50-52-58	808*/50-52-58		
10	840	772*/47-50-56	801*/50-52-58	809*/50-52-58		
5	841	775*/48-50-56	804*/50-52-58	812*/50-52-58		
0	842	779*/48-50-57	806*/50-52-58	814*/50-52-58		
		780**50-53-59				
-5	843	781*/48-51-57	808*/50-52-58	816*/51-52-58		
-10	843	783**51-54-59				
		784*/49-51-57	810*/50-52-58	818*/51-52-58		
		786**51-54-60				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 460 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.58 PERCENT FOR TODA AND 0.58 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 24 79 725 0 95 961 0 30 349 0
 36 370 0 98 1029 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 505 FT

RUNWAY 17

ZYDQ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

SAERTUJICHANG

DQ/NORTHEAST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	641	587*/31-32-37	618*/36-36-40	629*/37-37-41
58A	656	599*/32-33-38	631*/37-37-41	641*/39-39-42
55A	672	611*/33-35-40	644*/38-39-43	654*/40-40-44
52	690	624*/34-36-41	657*/40-40-44	669*/41-41-45
49	708	637*/35-37-43	672*/41-41-46	684*/42-43-47
46	728	651*/37-39-44	687*/42-43-48	699*/44-44-49
43	747	665*/38-40-46	702*/43-44-49	715*/45-45-50
40	766	680*/39-41-47	718*/44-45-51	730*/46-47-52
37	786	694*/40-42-49	734*/45-47-52	747*/47-48-53
34	806	708*/41-43-50	749*/46-48-54	763*/48-49-55
31	826	721*/42-45-52	764*/47-49-55	778*/49-51-56
28	839	730*/42-45-53	775*/48-50-56	789*/49-52-57
25	840	733*/42-46-53	778*/48-50-57	792*/50-52-58
22	841	736*/43-46-53	781*/48-51-57	794*/50-52-58
19	842	739*/43-46-53	784*/49-51-57	796*/50-52-58
16	842	742*/43-47-54	787*/49-51-57	799*/50-52-58
13	843	745*/44-47-54	790*/49-52-58	801*/50-52-58
10	844	748*/44-47-54	792*/49-52-58	803*/50-52-58
5	845	753*/45-48-55	796*/49-52-58	807*/50-52-58
0	846	758*/45-48-55	800*/49-52-58	810*/50-52-58
-5	847	763*/46-49-55	803*/49-52-58	814*/50-52-58
-10	848	767*/46-49-56	807*/50-52-58	818*/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 17 30 267 0 52 640 0 23 188 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 505 FT

RUNWAY 35 ZYDQ

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF SAERTUJICHANG
 737-800 CFM56-7B26 DQ/NORTHEAST
 A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE DATED 10-JUN-2019

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61A	641	604F/33-34-39	643F/39-39-42	656*/39-39-42
			642**39-39-43	649**42-42-46
58A	656	616F/34-35-40	655F/40-40-44	669F/40-40-44
				663**43-43-46
55A	672	627F/35-37-41	667F/41-41-45	682F/42-42-46
				678**44-44-47
52	690	639F/36-38-43	681F/42-43-47	695F/44-44-47
				693**45-45-48
49	708	652F/37-39-44	694F/43-44-48	709F/45-45-49
46	728	665F/38-40-46	709F/44-45-49	724F/46-47-51
43	747	679F/39-41-47	723F/45-46-51	739F/47-48-52
40	766	692F/40-42-48	738F/46-47-52	754F/48-49-54
37	786	705F/41-44-50	753F/47-49-54	769F/49-50-55
34	806	717F/42-45-51	767F/48-50-55	784F/50-52-57
31	826	729F/42-45-52	780F/48-51-57	798F/50-52-57
28	839	738F/43-46-53	790F/49-52-57	808F/49-52-58
25	840	742F/43-47-54	794F/49-52-58	812F/49-52-58
22	841	745F/44-47-54	798F/49-52-58	816F/49-52-58
19	842	749F/44-47-54	802F/49-52-58	818*/49-52-58
16	842	752F/44-48-54	806F/49-52-58	821*/49-52-58
13	843	756F/45-48-55	810F/49-52-58	823*/50-52-58
10	844	760F/45-48-55	814F/49-52-58	826*/50-52-58
5	845	766F/46-49-56	819*/49-52-58	830*/50-52-58
0	846	772F/46-50-56	823*/49-52-58	834*/50-52-58
-5	847	779F/47-50-57	827*/49-52-58	838*/50-52-58
-10	848	785F/48-51-57	831*/49-52-58	842*/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 35 13 291 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 459 FT

RUNWAY 05

ZYHB

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				TAIPING JICHANG HEB/NORTHEAST
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	642	628*/36-37-41 634**42-45-48	648*/39-39-42 658**49-51-54	655*/39-39-42 666**51-53-56
58A	657	642*/38-39-43 648**44-46-50	663*/40-40-44 672**50-52-55	670*/40-40-44 681**52-54-57
55A	673	657*/39-40-44 662**45-48-52	678*/42-42-46 687**51-53-56	685*/42-42-46 696**52-54-58
52	691	672*/40-42-46 678**46-49-53	695*/43-44-47 704**51-53-57	702*/43-44-47 712**53-55-59
49	709	689*/42-43-47 694**47-50-55	712*/45-45-49 721**52-54-58	720*/45-45-49 730**54-56-60
46	729	706*/43-45-49 711**49-52-56	730*/46-47-51 739**53-56-60	738*/46-47-51 748**55-58-61
43	748	723*/44-46-51 727**49-53-57	748*/47-49-53 756**55-58-62	756*/48-49-53 765**56-59-63
40	767	741*/45-48-53 744**50-53-58	766*/49-50-55 773**56-59-63	774*/49-51-55 783**58-61-65
37	788	759*/46-49-54 761**50-53-58	785*/50-52-57 790**54-56-61	793*/51-52-57 790**51-53-58
34	807	776*/48-51-56 777**49-53-58	802*/50-52-57	809*/50-52-57
31	827	791B/48-52-57	816*/49-52-57	824*/50-52-57
28	840	801B/48-52-58	826*/49-52-58	834*/49-52-58
25	841	803*/48-52-58	828*/49-52-58	836*/49-52-58
22	842	805*/48-52-58	830*/49-52-58	838*/49-52-58
19	843	806*/48-52-58	831*/49-52-58	840*/49-52-58
16	843	808*/48-52-58	833*/49-52-58	841*/49-52-58
13	844	810*/48-52-58	835*/49-52-58	843*/49-52-58
10	845	811*/48-52-58	836*/49-52-58	845*/49-52-58
5	846	814*/48-52-58	839*/49-52-58	847*/49-52-58
0	847	816*/48-52-58	842*/49-52-58	850*/49-52-58
-5	848	819*/48-52-58	844*/49-52-58	852*/50-52-58
-10	849	821*/48-52-58	846*/49-52-58	855*/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.16 PERCENT FOR TODA AND -0.16 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05 59 1104 0 13 250 0 102 1480 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 459 FT

RUNWAY 23 ZYHB

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			TAIPING JICHANG HEB/NORTHEAST	
737-800		CFM56-7B26			DATED 10-JUN-2019	
OAT C	CLIMB 100KG	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
		-10	0	10		
61A	642	630*/37-38-41	650*/39-39-42	655*/39-39-42		
		638**44-46-50	661**50-52-55	669**52-53-56		
58A	657	645*/38-39-43	665*/40-40-44	671*/40-40-44		
		652**45-47-51	676**52-54-57	684**53-55-58		
55A	673	659*/40-40-44	680*/42-42-46	686*/42-42-46		
		666**46-48-52	691**53-55-58	699**54-56-59		
52	691	675*/41-42-46	697*/44-44-47	703*/44-44-47		
		682**47-49-53	707**54-56-59	716**56-58-61		
49	709	692*/42-43-48	714*/45-45-49	721*/45-45-49		
		699**49-51-55	725**55-57-60	733**56-58-62		
46	729	710*/44-45-50	733*/47-47-51	740*/47-47-51		
		716**49-52-56	743**55-57-61	752**57-59-63		
43	748	727*/45-47-51	750*/48-49-53	758*/48-49-53		
		732**50-52-57	760**56-59-63	770**57-60-63		
40	767	745*/46-48-53	769*/49-51-55	776*/50-51-55		
		749**50-53-58	778**57-60-64	788**58-61-65		
37	788	763*/47-50-55	788*/51-52-57	795*/51-52-57		
		766**51-54-59	790**52-54-58	790**52-53-58		
34	807	780*/48-51-56	804*/50-52-57	811*/51-52-57		
		782**50-53-58				
31	827	794B/49-52-57	819*/50-52-57	827*/50-52-57		
28	840	804B/48-52-58	829*/49-52-58	837*/50-52-58		
25	841	807*/48-52-58	831*/49-52-58	838*/50-52-58		
22	842	809*/48-52-58	832*/49-52-58	840*/50-52-58		
19	843	810*/48-52-58	834*/49-52-58	842*/50-52-58		
16	843	812*/48-52-58	835*/49-52-58	843*/50-52-58		
13	844	813*/48-52-58	837*/49-52-58	845*/50-52-58		
10	845	815*/48-52-58	839*/49-52-58	846*/50-52-58		
5	846	817*/48-52-58	841*/49-52-58	849*/50-52-58		
0	847	820*/48-52-58	844*/50-52-58	852*/50-52-58		
-5	848	822*/49-52-58	846*/50-52-58	854*/50-52-58		
-10	849	824*/49-52-58	848*/50-52-58	856*/50-52-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.16 PERCENT FOR TODA AND 0.16 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23 16 300 0 49 1140 0 59 1230 0
 79 1450 0 92 1480 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 262 FT

RUNWAY 06

ZYJM

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF

JIAMUSIJICHANG
JMS/NORTHEAST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	646	597F/32-33-38	636F/38-38-42	650F/39-39-43
58A	661	608F/33-34-39	648F/39-39-43	662F/41-41-44
55A	677	620F/34-36-41	660F/40-40-45	674F/42-42-46
52	695	632F/35-37-42	673F/41-42-46	688F/43-43-47
49	714	644F/36-38-44	687F/42-43-47	702F/44-44-49
46	734	657F/37-39-45	701F/43-44-49	716F/45-46-50
43	753	669F/38-40-46	715F/44-45-50	730F/46-47-52
40	772	682F/39-41-48	730F/45-46-52	745F/47-48-53
37	793	695F/40-42-49	744F/46-48-53	760F/48-49-55
34	812	708F/41-43-50	758F/47-49-55	775F/49-51-56
31	833	720F/41-44-52	771F/47-50-56	789F/50-52-57
28	843	728F/42-45-52	779F/48-51-57	797F/49-52-58
25	845	731F/42-45-53	783F/48-51-57	802F/49-52-58
22	846	735F/42-46-53	787F/49-51-57	806F/49-52-58
19	846	738F/43-46-53	791F/49-52-58	810F/49-52-58
16	847	742F/43-46-54	795F/49-52-58	814F/49-52-58
13	848	746F/44-47-54	799F/49-52-58	818F/49-52-58
10	849	749F/44-47-54	803F/49-52-58	822F/49-52-58
5	850	755F/45-48-55	810F/49-52-58	829F/49-52-58
0	851	762F/45-49-55	817F/49-51-58	836*/50-51-58
-5	852	768F/46-49-56	824F/49-51-58	839*/50-51-58
-10	853	774F/47-50-56	831F/49-51-58	842*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 06 46 900 0 233 4950 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 262 FT

RUNWAY 24 ZYJM

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF				JIAMUSIJICHANG JMS/NORTHEAST
737-800 CFM56-7B26				DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
C	100KG	-10	0	10
61A	646	589*/31-32-37	606*/34-34-39	611*/35-35-39
		592**33-34-39	619**40-42-46	627**43-44-48
58A	661	603*/33-34-39	620*/36-36-40	626*/37-37-41
		605**33-35-40	632**41-42-47	641**44-45-49
55A	677	617*/34-35-40	635*/37-37-42	641*/38-38-43
			645**42-43-47	655**44-46-50
52	695	631F/35-37-42	651*/39-39-44	657*/40-40-44
			660**43-44-48	670**45-46-51
49	714	644F/36-38-43	668*/40-41-46	674*/41-41-46
			676**43-45-49	686**46-47-52
46	734	656F/37-39-45	686*/41-42-47	692*/43-43-48
			692**44-46-50	702**47-48-53
43	753	669F/38-40-46	703*/43-44-49	709*/44-45-50
			708**45-46-51	718**47-49-54
40	772	682F/39-41-48	720*/44-45-51	727*/45-46-51
			724**46-47-53	735**48-50-55
37	793	695F/40-42-49	738*/45-47-53	744*/46-48-53
			741**46-48-54	751**49-51-56
34	812	707F/41-43-50	756*/47-49-54	762*/48-49-55
				768**49-52-57
31	833	719F/41-44-52	770F/47-50-56	781*/49-51-57
				784**50-52-58
28	843	727F/42-45-52	779F/48-50-57	791*/49-52-58
25	845	731F/42-45-53	783F/48-51-57	792*/49-52-58
22	846	734F/42-46-53	786*/49-51-57	793*/49-52-58
19	846	738F/43-46-53	787*/49-51-57	794*/49-52-58
			789**49-52-58	
16	847	741F/43-46-54	788*/49-51-57	795*/49-52-58
			790**50-52-58	
13	848	745F/44-47-54	789*/49-51-58	796*/49-52-58
10	849	749F/44-47-54	790*/49-52-58	797*/49-52-58
5	850	755F/45-48-55	792*/49-52-58	799*/50-52-58
0	851	761F/45-48-55	793*/49-51-58	800*/50-51-58
-5	852	767F/46-49-56	794*/49-51-58	801*/50-51-58
-10	853	773*/47-50-56	795*/49-51-58	802*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 940 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
24	33	470	0	36	470	0	39	620	0
	171	3660	0	220	4080	0	456	8426	0
	669	8492	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 108 FT

RUNWAY 10 ZYTL

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF ZHOU SHUI ZI JI CHANG
 DL/NORTHEAST
 737-800 CFM56-7B26 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	649	605*/33-34-39	626*/37-37-41	633*/38-38-42
		611**41-44-48	635**46-48-52	643**47-50-53
58A	664	619*/34-36-40	640*/38-38-42	648*/39-39-43
		624**41-44-49	649**47-50-54	657**49-51-55
55A	681	632*/36-37-42	655*/39-40-44	662*/41-41-45
		638**41-44-49	663**49-51-56	672**50-53-56
52	699	648*/37-39-44	671*/41-41-46	679*/42-42-46
		653**43-45-50	679**49-52-56	688**52-54-58
49	718	664*/38-40-45	688*/42-43-47	696*/43-44-48
		669**44-47-52	696**50-52-57	705**52-55-59
46	737	681*/40-42-47	706*/43-44-49	714*/45-45-50
		685**45-48-54	713**50-53-58	722**53-55-60
43	756	697*/41-43-49	723*/45-46-51	731*/46-47-52
		701**47-50-56	730**52-55-59	739**53-56-60
40	776	714*/42-45-50	740*/46-48-53	749*/47-48-53
		717**47-51-57	747**52-56-61	757**54-58-62
37	796	731*/43-46-52	758*/47-49-54	767*/48-50-55
		733**48-52-58	764**54-58-63	774**55-59-63
34	816	747*/44-48-54	776*/48-51-56	785*/49-52-57
		749**48-53-59	781**55-59-64	790**53-57-62
31	837	765*/45-49-55	794*/49-52-57	802*/49-52-57
		766**49-54-60		
28	846	772*/46-50-56	801*/49-52-58	809*/49-52-58
		774**50-55-61		
25	848	774*/46-50-56	802*/49-52-58	811*/49-52-58
		776**50-55-61		
22	849	776*/46-50-56	804*/49-52-58	812*/49-52-58
		778**51-55-62		
19	849	778*/47-50-57	805*/49-52-58	814*/49-52-58
		780**51-56-62		
16	850	780*/47-50-57	807*/49-52-58	815*/49-52-58
		782**52-57-63		
13	851	782*/47-51-57	809*/49-51-58	817*/49-51-58
		785**53-58-64		
10	852	784*/47-51-57	810*/49-51-58	819*/49-51-58
		787**52-58-64		
5	853	786*/47-51-57	813*/49-51-58	821*/49-51-58
		790**54-59-65		
0	854	789*/48-51-58	815*/49-51-58	824*/49-51-58
		790**48-52-58		
-5	855	791*/48-51-58	817*/49-51-58	826*/49-51-58
-10	856	793*/48-51-58	819*/49-51-58	828*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3300 M LONG WITH 0 M OF CLEARWAY AND 50 M OF STOPWAY			RUNWAY SLOPES ARE -0.15 PERCENT FOR TODA AND -0.15 PERCENT FOR ASDA		
	LINE-UP DISTANCES:	19 M FOR TODA,	35 M FOR ASDA	OBS FROM LO-FT/M	HT	DIST
10	HT	DIST	OFFSET	HT	DIST	OFFSET
	59	330	0	121	1120	0
	69	446	0	72	548	0
	118	1161	0	36	289	0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 108 FT

RUNWAY 28 ZYTL

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	ZHOUSHUIZIJICHANG DL/NORTHEAST
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
58A 664	541*/24-26-32	563*/28-28-35	570*/29-29-35
	551**33-37-42	574**37-40-45	582**39-41-46
55A 681	554*/26-27-34	576*/29-30-36	583*/31-31-37
	564**34-38-44	587**39-41-47	595**40-43-48
52 699	568*/27-29-36	591*/31-31-38	598*/32-32-39
	578**36-40-46	602**40-43-49	610**41-44-50
49 718	583*/28-30-37	606*/32-33-40	614*/34-34-40
	592**37-42-48	617**42-45-50	625**43-46-51
46 737	598*/30-32-39	622*/34-35-42	629*/35-36-42
	607**39-43-49	633**43-47-52	641**45-48-53
43 756	613*/31-33-41	637*/35-36-43	645*/36-37-44
	622**40-45-51	648**45-48-54	657**46-49-55
40 776	627*/32-35-43	652*/36-38-45	660*/38-39-46
	637**41-46-53	663**46-50-56	672**47-51-57
37 796	642*/33-36-44	668*/38-39-47	676*/39-40-47
	652**43-48-55	679**47-51-58	688**49-52-59
34 816	658*/35-38-46	684*/39-41-48	692*/40-42-49
	667**44-50-57	695**49-53-59	704**50-54-60
31 837	674*/36-39-48	701*/40-42-50	709*/42-43-51
	683**45-51-58	711**50-55-61	721**51-56-62
28 846	681*/37-40-48	708*/41-43-51	717*/42-44-52
	691**46-52-59	719**50-55-62	728**52-56-63
25 848	682*/37-40-49	709*/41-43-51	718*/42-44-52
	692**46-52-59	720**51-55-62	730**52-57-63
22 849	683*/37-40-49	710*/41-43-51	719*/42-44-52
	693**46-52-59	722**51-56-62	731**52-57-63
19 849	684*/37-40-49	711*/41-43-51	720*/43-44-52
	694**46-52-60	723**51-56-62	733**52-57-63
16 850	685*/37-40-49	713*/41-43-51	722*/43-44-52
	696**47-52-60	724**51-56-63	734**52-57-64
13 851	686*/37-40-49	714*/41-43-51	723*/43-44-52
	697**47-53-60	726**51-56-63	735**53-57-64
10 852	687*/38-40-49	715*/42-43-51	724*/43-44-52
	698**47-53-60	727**51-56-63	737**53-57-64
5 853	689*/38-41-49	716*/42-44-52	726*/43-45-52
	700**47-53-60	729**52-56-63	739**53-57-64
0 854	690*/38-41-49	718*/42-44-52	727*/43-45-52
	701**47-53-60	731**52-56-63	741**53-58-64
-5 855	691*/38-41-49	719*/42-44-52	728*/44-45-53
	703**48-53-60	732**52-57-63	742**53-58-64
-10 856	692*/38-41-50	720*/42-44-52	730*/44-45-53
	704**48-53-61	734**52-57-64	744**54-58-65

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 930 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
28	226	3087	0	164	1802	0	174	1888	0
	545	9482	0	59	744	0	364	4333	0
	525	4460	0	52	556	0	715	4500	0
	66	823	0	135	1060	0			

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 108 FT

RUNWAY 28/A2 ZYTL

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	ZHOUSHUIZIJICHANG DL/NORTHEAST	
737-800	CFM56-7B26		DATED 10-JUN-2019	
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
C	100KG	-10	0	10
58A	664	539*/24-25-32 548**32-36-42	560*/28-28-34 571**37-40-45	567*/29-29-35 579**38-41-46
55A	681	551*/25-27-34 560**34-38-44	573*/29-30-36 584**38-41-46	581*/30-30-37 592**40-42-47
52	699	565*/26-28-35 574**35-39-45	588*/30-31-38 599**40-43-48	595*/32-32-38 607**41-44-49
49	718	580*/28-30-37 589**37-41-47	603*/32-33-39 614**41-44-50	611*/33-34-40 622**43-46-51
46	737	595*/29-31-39 604**38-43-49	619*/33-34-41 629**43-46-52	626*/35-35-42 638**44-47-53
43	756	609*/31-33-41 619**39-44-51	634*/35-36-43 644**44-48-54	642*/36-37-44 653**46-49-55
40	776	624*/32-34-42 633**41-46-53	649*/36-37-45 659**45-49-56	657*/37-38-45 668**47-50-57
37	796	639*/33-36-44 648**42-47-54	664*/37-39-46 675**47-51-57	673*/39-40-47 684**48-52-58
34	816	654*/34-37-46 663**44-49-56	680*/39-40-48 691**48-52-59	689*/40-41-49 700**49-54-60
31	837	670*/36-39-47 679**45-51-58	697*/40-42-50 707**49-54-61	706*/41-43-50 717**51-55-62
28	846	677*/36-39-48 686**46-51-59	704*/40-42-50 715**50-55-62	713*/42-43-51 724**51-56-63
25	848	678*/36-39-48 688**46-51-59	706*/41-43-51 716**50-55-62	715*/42-44-51 726**52-56-63
22	849	679*/37-40-48 689**46-52-59	707*/41-43-51 718**50-55-62	716*/42-44-51 727**52-56-63
19	849	680*/37-40-48 690**46-52-59	708*/41-43-51 719**50-55-62	717*/42-44-52 729**52-56-63
16	850	681*/37-40-49 691**46-52-59	709*/41-43-51 720**51-55-62	718*/42-44-52 730**52-56-63
13	851	682*/37-40-49 693**46-52-59	710*/41-43-51 722**51-55-62	719*/42-44-52 731**52-57-63
10	852	683*/37-40-49 694**46-52-59	711*/41-43-51 723**51-56-62	720*/43-44-52 733**52-57-63
5	853	685*/37-40-49 696**47-52-60	713*/42-43-51 725**51-56-63	722*/43-44-52 735**53-57-64
0	854	686*/37-40-49 697**47-53-60	714*/42-43-51 727**51-56-63	724*/43-44-52 737**53-57-64
-5	855	687*/38-40-49 699**47-53-60	716*/42-44-52 728**52-56-63	725*/43-45-52 738**53-57-64
-10	856	688*/38-40-49 700**47-53-60	717*/42-44-52 730**52-56-63	726*/43-45-52 740**53-58-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 920 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	LINE-UP DISTANCES:			OF STOPWAY		
	HT	DIST	OFFSET	HT	DIST	OFFSET
28/A2	226	3087	0	164	1802	0
	545	9482	0	59	744	0
	525	4460	0	52	556	0
	66	823	0	135	1060	0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 108 FT

RUNWAY 28/B ZYTL

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	ZHOUSHUIZIJICHANG DL/NORTHEAST
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
58A 664	536*/24-25-32 545**32-36-42	558*/28-28-34 568**36-39-44	565*/29-29-35 576**38-40-45
55A 681	549*/25-26-33 558**33-37-43	571*/29-29-36 581**38-41-46	578*/30-30-36 589**39-42-47
52 699	563*/26-28-35 572**35-39-45	586*/30-31-37 596**39-42-48	593*/32-32-38 604**41-43-49
49 718	577*/27-29-37 586**36-41-47	601*/32-32-39 611**41-44-50	608*/33-33-40 619**42-45-51
46 737	592*/29-31-39 601**38-42-49	616*/33-34-41 626**42-46-52	624*/34-35-42 635**44-47-53
43 756	607*/30-32-40 616**39-44-51	631*/34-36-43 642**44-47-54	640*/36-37-44 650**45-49-55
40 776	621*/31-34-42 630**40-45-52	646*/36-37-44 657**45-49-55	655*/37-38-45 666**47-50-56
37 796	636*/33-35-44 645**42-47-54	662*/37-38-46 672**46-50-57	670*/38-39-47 681**48-52-58
34 816	651*/34-37-45 660**43-49-56	678*/38-40-48 688**48-52-59	687*/40-41-49 697**49-53-60
31 837	667*/35-38-47 676**44-50-58	694*/40-41-49 704**49-54-60	703*/41-42-50 714**50-55-61
28 846	674*/36-39-48 683**45-51-58	702*/40-42-50 712**50-54-61	711*/41-43-51 721**51-56-62
25 848	675*/36-39-48 684**45-51-59	703*/40-42-50 713**50-55-61	712*/42-43-51 723**51-56-62
22 849	676*/36-39-48 686**45-51-59	704*/40-42-50 715**50-55-62	713*/42-43-51 724**51-56-63
19 849	677*/36-39-48 687**46-51-59	705*/41-42-51 716**50-55-62	714*/42-43-51 726**51-56-63
16 850	678*/36-39-48 688**46-51-59	706*/41-43-51 717**50-55-62	715*/42-44-51 727**52-56-63
13 851	679*/37-39-48 689**46-52-59	707*/41-43-51 718**50-55-62	717*/42-44-52 728**52-56-63
10 852	680*/37-40-48 690**46-52-59	708*/41-43-51 720**50-55-62	718*/42-44-52 730**52-56-63
5 853	682*/37-40-49 692**46-52-59	710*/41-43-51 722**51-55-62	719*/43-44-52 732**52-57-63
0 854	683*/37-40-49 694**46-52-60	712*/41-43-51 724**51-56-63	721*/43-44-52 734**52-57-64
-5 855	684*/37-40-49 695**47-52-60	713*/42-43-51 725**51-56-63	722*/43-44-52 735**53-57-64
-10 856	685*/38-40-49 697**47-52-60	714*/42-43-51 727**51-56-63	723*/43-44-52 737**53-57-64

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 920 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
28/B	226	3087	0	164	1802	0	174	1888	0
	545	9482	0	59	744	0	364	4333	0
	525	4460	0	52	556	0	715	4500	0
	66	823	0	135	1060	0			

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 200 FT

RUNWAY 06

ZYTX

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	TAOXIANJICHANG SY/NORTHEAST	
737-800	CFM56-7B26		DATED 10-JUN-2019	
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10 0 10		
61A	647	627*/37-37-41 632**42-44-48	647*/39-39-43 656**47-48-52	654*/39-39-43 664**50-51-54
58A	663	641*/38-38-43 645**43-45-49	662*/41-41-45 670**48-49-53	669*/41-41-45 679**51-52-55
55A	679	655*/39-40-44 659**44-46-50	677*/42-42-46 685**49-50-54	684*/43-43-46 694**52-53-56
52	697	671*/41-41-46 675**47-49-53	694*/44-44-48 702**51-52-56	701*/44-44-48 711**52-54-57
49	715	688*/42-43-47 691**48-50-54	711*/45-45-50 719**52-54-58	719*/46-46-50 728**53-55-58
46	735	705*/43-44-49 708**48-51-55	729*/47-47-51 737**53-55-59	737*/48-48-52 746**55-57-61
43	754	722*/44-46-51 724**48-50-55	747*/48-49-53 754**55-57-61	755*/49-49-54 763**56-58-62
40	774	739*/46-47-53 741**48-50-55	765*/49-50-55 771**55-57-62	774*/50-51-55 781**57-60-64
37	794	757*/47-49-54 758**48-51-56	784*/51-52-56 788**55-58-62	792*/51-52-57
34	814	774*/48-50-56 775**50-53-58	800*/51-52-57	808*/51-52-57
31	835	791*/49-52-57	815*/50-52-57	823*/50-52-57
28	845	798*/49-52-58	822*/50-52-58	831*/50-52-58
25	846	799*/49-52-58	824*/50-52-58	832*/50-52-58
22	847	801*/49-52-58	826*/50-52-58	834*/50-52-58
19	848	803*/49-52-58	828*/50-52-58	836*/50-52-58
16	848	804*/49-52-58	829*/50-52-58	838*/50-52-58
13	849	806*/49-52-58	831*/50-52-58	839*/50-52-58
10	850	808*/49-52-58	833*/50-52-58	841*/50-52-58
5	852	811*/49-51-58	835*/50-51-58	844*/50-51-58
0	853	813*/49-51-58	838*/50-51-58	846*/50-51-58
-5	853	815*/49-51-58	840*/50-51-58	849*/50-51-58
-10	854	818*/49-51-58	843*/50-51-58	851*/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.40 PERCENT FOR TODA AND 0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 06 10 255 0 13 360 0 26 650 0
 72 980 0 69 980 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 200 FT

RUNWAY 06/A2 ZYTX

		*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			TAOXIANJICHANG SY/NORTHEAST	
737-800		CFM56-7B26			DATED 10-JUN-2019	
OAT C 100KG	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
		-10	0	10		
61A	647	610*/34-35-39	633*/38-38-42	641*/39-39-42		
		612**39-40-44	638**43-44-48	646**45-46-50		
58A	663	624*/36-36-41	647*/39-39-43	655*/40-40-44		
		625**39-41-45	651**45-46-50	660**46-47-51		
55A	679	637*/37-38-42	662*/41-41-45	670*/42-42-45		
			666**46-48-52	675**48-49-53		
52	697	652*/38-39-44	678*/42-42-46	686*/43-43-47		
			681**48-49-53	691**50-51-55		
49	715	668*/40-41-46	695*/44-44-48	703*/45-45-49		
			697**49-51-55	707**51-52-56		
46	735	684*/41-42-47	712*/45-45-50	721*/46-46-51		
			714**49-51-56	724**52-54-58		
43	754	700*/42-44-49	729*/46-47-51	738*/47-48-52		
			731**50-52-56	741**52-54-59		
40	774	717*/43-45-51	746*/47-48-53	755*/49-49-54		
			748**51-52-57	758**53-55-60		
37	794	733F/44-46-52	764*/48-50-55	773*/50-51-56		
			765**51-53-58	776**54-56-60		
34	814	746F/45-48-54	781*/50-51-57	791*/51-52-57		
			783**51-53-59			
31	835	759F/46-49-55	797*/50-52-57	806*/50-52-57		
28	845	767F/46-49-56	805*/50-52-58	813*/50-52-58		
25	846	771F/47-50-56	806*/50-52-58	815*/50-52-58		
22	847	774F/47-50-56	808*/50-52-58	817*/50-52-58		
19	848	778F/47-50-57	810*/50-52-58	819*/50-52-58		
16	848	782F/48-51-57	812*/50-52-58	820*/50-52-58		
13	849	786*/48-51-57	813*/50-52-58	822*/50-52-58		
10	850	788*/48-51-57	815*/50-52-58	824*/50-52-58		
5	852	791*/49-51-58	818*/50-51-58	827*/50-51-58		
0	853	794*/49-51-58	821*/50-51-58	829*/50-51-58		
-5	853	796*/49-51-58	823*/50-51-58	832*/50-51-58		
-10	854	799*/49-51-58	826*/50-51-58	834*/50-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 200 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.40 PERCENT FOR TODA AND 0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 06/A2 10 255 0 13 360 0 26 650 0
 72 980 0 69 980 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 200 FT

RUNWAY 24

ZYTX

*** FLAPS 05 ***	AIR COND AUTO	ANTI-ICE OFF	TAOXIANJICHANG SY/NORTHEAST
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10
61A 647	656*/38-39-43 658**43-45-48	676*/39-39-43 680**52-54-57	682*/39-39-43 680**52-54-57
58A 663	670*/40-41-45 672**44-46-49	691*/41-41-45 696**54-56-59	698*/41-41-45 696**54-56-59
55A 679	685*/41-43-46 686**44-46-50	706*/42-43-46 712**54-57-60	713*/42-43-46 714**55-58-61
52 697	701*/43-44-48 702**46-48-51	724*/43-44-48 729**55-58-61	730*/44-44-48 732**57-60-63
49 715	718*/44-46-50 719**46-49-52	741*/45-46-50 747**56-59-62	748*/45-46-50 752**58-62-65
46 735	736*/45-48-52 737**47-50-54	759*/46-48-52 766**56-59-63	767*/47-48-52 772**59-63-66
43 754	753*/47-49-53	777*/48-49-54 783**57-60-64	785*/48-49-54 790**60-63-67
40 774	770*/48-51-55	795*/49-51-55 790**54-57-61	803*/49-51-55 790**54-57-61
37 794	783B/48-52-56	813*/50-52-57	821*/50-52-57
34 814	788B/48-52-57	828*/49-52-57	836*/50-52-57
31 835	797B/48-52-57	842*/49-52-57	851*/49-52-57
28 845	807B/47-52-58	850*/48-52-58	859*/49-52-58
25 846	815B/47-52-58	852*/48-52-58	861*/49-52-58
22 847	822B/47-52-58	854*/49-52-58	862F/49-52-58
19 848	828*/47-52-58	856*/49-52-58	862F/49-52-58
16 848	830*/47-52-58	858*/49-52-58	862F/49-52-58
13 849	832*/47-52-58	860*/49-52-58	862F/49-52-58
10 850	834*/47-52-58	862F/49-52-58	862F/49-52-58
5 852	838*/47-51-58	862F/49-51-58	862F/49-51-58
0 853	841*/48-51-58	862F/49-51-58	862F/49-51-58
-5 853	844*/48-51-58	862F/49-51-58	862F/49-51-58
-10 854	847*/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.40 PERCENT FOR TODA AND -0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

24	52	980	0
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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 200 FT

RUNWAY 24/A8 ZYTX

*** FLAPS 05 *** AIR COND AUTO ANTI-ICE OFF			TAOXIANJICHANG SY/NORTHEAST DATED 10-JUN-2019	
737-800	CFM56-7B26			
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C	100KG		-10	0
61A	647	635*/37-38-42	660*/39-39-43	668*/39-39-43
			662**44-46-49	671**48-49-52
58A	663	648*/38-39-43	675*/41-41-45	683*/41-41-45
			676**45-46-50	685**49-50-53
55A	679	662*/39-41-45	689*/42-43-46	698*/42-43-46
			691**46-47-51	700**49-51-54
52	697	677*/40-42-46	706*/43-44-48	714*/44-44-48
			707**47-48-52	716**50-52-55
49	715	692F/41-43-48	722*/45-46-50	732*/45-46-50
			724**47-49-53	733**51-53-56
46	735	705F/42-44-49	740*/46-48-52	750*/47-48-52
			741**49-51-55	751**52-54-57
43	754	718F/43-46-51	757*/48-49-54	767*/48-49-54
			758**50-52-56	768**52-54-58
40	774	731F/44-47-52	775*/49-51-55	785*/49-51-55
			775**50-53-57	786**53-55-59
37	794	745F/44-48-53	793*/50-52-57	802*/50-52-57
34	814	758F/45-49-55	806*/49-52-57	815*/50-52-57
31	835	771F/46-50-56	820*/49-52-57	829*/49-52-57
28	845	779F/46-50-57	827*/48-52-58	837*/49-52-58
25	846	782F/47-51-57	829*/48-52-58	839*/49-52-58
22	847	786F/47-51-57	831*/49-52-58	841*/49-52-58
19	848	790F/47-52-58	833*/49-52-58	843*/49-52-58
16	848	794F/47-52-58	835*/49-52-58	845*/49-52-58
13	849	798F/47-52-58	838*/49-52-58	847*/49-52-58
10	850	802F/47-52-58	840*/49-52-58	850*/49-52-58
5	852	808F/47-51-58	843*/49-51-58	853*/49-51-58
0	853	815F/48-51-58	847*/49-51-58	856*/49-51-58
-5	853	820*/48-51-58	850*/49-51-58	860*/49-51-58
-10	854	823*/48-51-58	853*/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 200 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.40 PERCENT FOR TODA AND -0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 24/A8 52 980 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 39 FT

RUNWAY 05

VDPP

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

JINBIANJI CHANG
JPZ/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	670	654*/39-40-44 656**43-45-49	670*/42-42-45 683**49-50-54	675*/42-42-45 692**50-51-55
58A	686	668*/40-41-45 670**43-45-50	686*/43-43-47 698**50-51-55	691*/43-43-47 707**52-53-57
55A	703	683*/41-43-47 685**44-46-50	702*/44-45-49 713**51-53-57	707*/45-45-49 722**53-55-58
52	721	699*/42-44-48 700**45-47-51	720*/46-46-50 729**52-54-58	725*/46-46-50 739**53-55-59
49	740	715*/44-45-50 717**45-48-52	738*/47-48-52 746**53-55-59	744*/47-48-52 756**55-58-62
46	760	733*/45-47-52 734**46-49-53	758*/48-50-54 764**54-56-60	763*/49-50-54 774**56-59-62
43	780	750*/46-49-54	777*/50-51-56 782**54-57-61	783*/50-52-56 790**53-55-59
40	800	767F/47-50-55	796*/50-52-57	802*/51-52-57
37	821	781F/48-51-57	811*/50-52-57	819*/50-52-57
34	840	794F/48-52-58	825*/49-52-58	833*/49-52-58
31	860	806F/47-51-58	839*/48-51-58	848*/49-51-58
28	862	813F/47-51-58	845*/48-51-58	854*/49-51-58
25	862	817F/47-51-58	847*/48-51-58	856*/49-51-58
22	862	821F/47-51-58	849*/48-51-58	858*/49-51-58
19	862	823*/47-51-58	851*/48-51-58	860*/49-51-58
16	862	825*/47-51-58	852*/48-51-58	862*/49-51-58
13	862	826*/47-51-58	854*/48-51-58	862F/49-51-58
10	862	828*/47-51-58	856*/48-51-58	862F/49-51-58
5	862	831*/47-51-58	859*/48-51-58	862F/49-51-58
0	862	834*/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	837*/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	839*/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 800 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05 72 1199 0 505 9492 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 39 FT

RUNWAY 23 VDPP

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

JINBIANJICHANG
JPZ/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	670	622*/35-36-41	644*/39-39-43	652*/40-40-44	
		628**40-43-47	652**48-50-54	661**49-51-55	
58A	686	636*/36-37-42	659*/40-40-45	666*/41-41-45	
		641**41-44-49	667**48-51-55	675**51-53-57	
55A	703	650*/37-39-44	674*/41-42-46	681*/42-42-47	
		655**43-46-51	681**49-51-55	690**51-54-58	
52	721	666*/39-40-46	690*/42-43-48	698*/44-44-48	
		671**44-47-52	697**50-52-56	706**52-54-58	
49	740	682*/40-42-47	707*/44-45-49	715*/45-45-50	
		687**45-49-54	714**50-53-57	723**52-55-59	
46	760	699*/41-43-49	725*/45-46-51	733*/46-47-52	
		703**47-50-55	732**51-54-59	741**53-56-60	
43	780	716*/43-45-51	742*/46-48-53	751*/47-49-54	
		719**47-50-56	749**53-56-61	759**54-57-62	
40	800	733*/44-46-52	760*/47-49-55	769*/49-50-55	
		735**48-52-58	766**54-58-63	776**55-59-64	
37	821	750*/45-48-54	779*/49-51-56	788*/50-52-57	
		752**48-52-58	783**55-59-64	790**51-54-59	
34	840	766*/46-49-56	795*/49-52-58	803*/49-52-58	
		767**49-53-60			
31	860	782*/47-51-57	809*/49-51-58	818*/49-51-58	
		784**49-54-60			
28	862	789*/47-51-58	815*/48-51-58	824*/49-51-58	
25	862	791*/47-51-58	817*/48-51-58	826*/49-51-58	
22	862	792*/47-51-58	819*/48-51-58	827*/49-51-58	
19	862	794*/47-51-58	820*/48-51-58	829*/49-51-58	
16	862	795*/47-51-58	822*/48-51-58	830*/49-51-58	
13	862	797*/47-51-58	823*/48-51-58	832*/49-51-58	
10	862	798*/47-51-58	825*/48-51-58	833*/49-51-58	
5	862	801*/47-51-58	827*/48-51-58	836*/49-51-58	
0	862	803*/47-51-58	829*/49-51-58	838*/49-51-58	
-5	862	805*/47-51-58	832*/49-51-58	840*/49-51-58	
-10	862	807*/48-51-58	834*/49-51-58	842*/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23 13 215 0 69 771 0 151 1703 0

ENG-OUT PROCEDURE: ALLOWABLE TAKEOFF WEIGHTS FOR RWY 23 BASED ON A 15 DEGREE
 BANKED CLIMBING -LEFT- TURN, COMMENCED AT D2.5 PNH VOR TO A MAG COURSE OF 160 DEGREES.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 05

VDSR

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

WUGEJICHANG

XL/INTERNATIONAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	670	616F/34-35-40	656F/40-40-44	670F/42-42-45
58A	686	627F/35-36-41	668F/41-41-45	683F/43-43-47
55A	702	639F/36-37-43	680F/42-42-47	695F/44-44-48
52	720	651F/37-39-44	694F/43-43-48	709F/45-45-49
49	739	664F/38-40-46	708F/44-45-49	723F/46-46-51
46	760	677F/39-41-47	722F/45-46-51	738F/47-48-52
43	779	690F/40-42-48	737F/46-47-52	753F/48-49-54
40	800	703F/41-43-50	752F/47-48-54	768F/49-50-55
37	820	716F/41-44-51	766F/47-50-55	784F/49-51-57
34	839	728F/42-45-52	779F/48-50-57	796F/50-52-58
31	859	740F/42-46-54	792F/49-51-58	810F/49-51-58
28	862	746F/43-47-54	799F/48-51-58	817F/49-51-58
25	862	750F/43-47-55	803F/48-51-58	821F/49-51-58
22	862	753F/44-47-55	807F/48-51-58	825F/49-51-58
19	862	757F/44-48-55	811F/48-51-58	829F/49-51-58
16	862	761F/44-48-55	815F/48-51-58	834F/49-51-58
13	862	764F/45-48-56	819F/49-51-58	838F/49-51-58
10	862	768F/45-49-56	823F/49-51-58	842F/49-51-58
5	862	774F/46-49-57	830F/49-51-58	849F/49-51-58
0	862	780F/47-50-57	837F/49-51-58	853*/49-51-58
-5	862	787F/47-51-58	844F/49-51-58	857*/49-51-58
-10	862	793F/48-51-58	849*/49-51-58	860*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2550 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.10 PERCENT FOR TODA AND 0.10 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
05 39 806 0ENG-OUT PROCEDURE: ALLOWABLE TAKEOFF WEIGHTS FOR RUNWAY 05 BASED ON A 15
DEGREE BANKED CLIMBING -LEFT- TURN, COMMENCED AT D1.3 SRE VOR TO A MAG
COURSE OF 310 DEGREES. INTERCEPT AND TRACK OUTBOUND ON THE SRE R-340.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 23 VDSR

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

WUGEJICHANG
XL/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	670	617*/34-35-40	648*/39-39-43	658*/40-40-44
58A	686	629*/35-37-42	661*/40-40-45	672*/41-42-46
55A	702	641F/36-38-43	675*/41-42-46	686*/43-43-47
52	720	654F/37-39-44	690*/42-43-48	701*/44-44-49
49	739	667F/38-40-46	705*/43-44-49	717*/45-46-50
46	760	680F/39-41-47	721*/44-46-51	733*/46-47-52
43	779	693F/40-42-49	737*/46-47-52	750*/47-48-54
40	800	706F/41-43-50	754*/47-49-54	767*/48-50-55
37	820	718F/41-44-51	769F/47-50-56	784*/49-51-57
34	839	730F/42-45-53	781F/48-51-57	797*/49-52-58
31	859	742F/42-46-54	795F/48-51-58	808*/49-51-58
28	862	749F/43-47-54	802F/48-51-58	814*/49-51-58
25	862	752F/43-47-55	805*/48-51-58	816*/49-51-58
22	862	756F/44-48-55	807*/48-51-58	818*/49-51-58
19	862	760F/44-48-55	810*/48-51-58	820*/49-51-58
16	862	763F/44-48-56	812*/48-51-58	823*/49-51-58
13	862	767F/45-49-56	814*/48-51-58	825*/49-51-58
10	862	771F/45-49-56	816*/48-51-58	827*/49-51-58
5	862	777F/46-50-57	820*/48-51-58	831*/49-51-58
0	862	783F/47-50-57	824*/48-51-58	835*/49-51-58
-5	862	790F/47-51-58	827*/48-51-58	838*/49-51-58
-10	862	796F/47-51-58	831*/49-51-58	842*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2550 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.10 PERCENT FOR TODA AND -0.10 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
23 39 530 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 10 FT

RUNWAY 03

VDSV

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

XIHANUKEJICHANG
XHNK/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	671	612F/33-35-40	647*/39-39-43	653*/40-40-44
			649**40-40-44	658**42-43-47
58A	687	624F/34-36-41	662*/40-40-45	668*/41-41-45
				673**43-44-48
55A	703	635F/35-37-42	676F/41-42-46	684*/42-43-47
				687**44-44-48
52	722	647F/36-38-44	690F/42-43-48	701*/44-44-49
				702**45-45-49
49	741	659F/37-39-45	704F/43-44-49	718*/45-46-50
46	761	672F/38-40-47	718F/44-45-51	734F/46-47-52
43	781	685F/39-41-48	733F/45-47-52	748F/47-48-53
40	801	698F/40-43-49	748F/46-48-54	764F/48-50-55
37	821	711F/41-44-51	761F/47-49-55	779F/49-51-56
34	841	722F/41-44-52	774F/47-50-56	792F/49-52-58
31	861	734F/42-45-53	787F/48-51-57	805F/49-51-58
28	862	741F/42-46-54	794F/48-51-58	812F/49-51-58
25	862	744F/43-46-54	797F/48-51-58	816F/49-51-58
22	862	748F/43-47-54	801F/48-51-58	820F/49-51-58
19	862	751F/43-47-55	805F/48-51-58	824F/49-51-58
16	862	755F/44-47-55	809F/48-51-58	828F/49-51-58
13	862	759F/44-48-55	813F/48-51-58	832F/49-51-58
10	862	762F/44-48-56	817F/48-51-58	837F/49-51-58
5	862	769F/45-49-56	824F/48-51-58	840*/49-51-58
0	862	775F/46-50-57	831F/48-51-58	842*/49-51-58
-5	862	781F/46-50-57	836*/49-51-58	844*/49-51-58
-10	862	787F/47-51-58	838*/49-51-58	846*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 710 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
03	177	3276	0	220	3282	0	279	5749	0
	325	8667	0	404	9417	0	453	9508	0
	469	9968	0	479	10059	0			

ENG-OUT PROCEDURE: At D0.5 IKOS LEFT turn to 360.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 10 FT

RUNWAY 21 VDSV

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF XIHANUKE JICHANG
 737-800 CFM56-7B26 XHNK/INTERNATIONAL
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	671	612F/33-35-40	652F/39-40-44	666F/41-41-45
58A	687	624F/34-36-41	664F/40-41-45	679F/42-42-46
55A	703	635F/35-37-42	676F/41-42-46	691F/43-43-48
52	722	647F/36-38-44	690F/42-43-48	705F/44-45-49
49	741	659F/37-39-45	704F/43-44-49	719F/45-46-50
46	761	672F/38-40-47	718F/44-45-51	734F/46-47-52
43	781	685F/39-41-48	733F/45-47-52	748F/47-48-53
40	801	698F/40-43-49	748F/46-48-54	764F/48-50-55
37	821	711F/41-44-51	761F/47-49-55	779F/49-51-56
34	841	722F/41-44-52	774F/47-50-56	792F/49-52-58
31	861	734F/42-45-53	787F/48-51-57	805F/49-51-58
28	862	741F/42-46-54	794F/48-51-58	812F/49-51-58
25	862	744F/43-46-54	797F/48-51-58	816F/49-51-58
22	862	748F/43-47-54	801F/48-51-58	820F/49-51-58
19	862	751F/43-47-55	805F/48-51-58	824F/49-51-58
16	862	755F/44-47-55	809F/48-51-58	828F/49-51-58
13	862	759F/44-48-55	813F/48-51-58	832F/49-51-58
10	862	762F/44-48-56	817F/48-51-58	837F/49-51-58
5	862	769F/45-49-56	824F/48-51-58	844F/49-51-58
0	862	775F/46-50-57	831F/48-51-58	851F/49-51-58
-5	862	781F/46-50-57	838F/49-51-58	858F/49-51-58
-10	862	787F/47-51-58	845F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

ENG-OUT PROCEDURE: At D1.4 IKOS RIGHT turn to 240.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03L VTBD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

LANGMANJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	671	683*/41-42-45 694**51-53-56	700*/42-42-45 705**55-57-60	705*/42-42-45 705**55-57-60
58A	687	699*/42-43-47 709**52-54-58	716*/43-43-47 722**56-59-62	722*/43-43-47 722**56-59-62
55A	703	715*/44-45-49 725**52-55-58	732*/44-45-49 740**58-60-64	738*/45-45-49 740**58-60-64
52	722	732*/45-46-50 741**52-55-58	750*/46-46-50 759**59-62-66	756*/46-46-50 759**60-62-66
49	741	750*/46-48-52 755**51-53-57	768*/47-48-52 779**61-64-68	775*/47-48-52 779**61-64-68
46	761	768*/48-50-54 768**50-52-56	788*/49-50-54 790**58-61-65	794*/49-50-54 790**58-61-65
43	781	779B/49-51-56	807*/50-52-56 790**53-55-59	813*/50-52-56 790**53-55-59
40	801	784B/49-52-57	825*/50-52-57	831*/51-52-57
37	821	790B/49-52-57	841*/50-52-57	848*/50-52-57
34	841	800B/48-52-58	857*/49-52-58	862F/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	853B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	861B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3700 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03L 72 1290 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03L/R/P VTBD

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	LANGMAN JICHANG MG/INTERNATIONAL DATED 10-JUN-2019
737-800		CFM56-7B26		*A* INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10		
61A	671	639*/37-38-42	664*/41-41-45	672*/42-42-45		
			667**45-46-50	676**48-49-52		
58A	687	653*/38-39-44	679*/42-42-46	687*/43-43-47		
			681**46-47-51	691**48-50-53		
55A	703	666F/39-41-45	693*/43-44-48	702*/45-45-49		
			696**47-48-52	706**49-50-54		
52	722	679F/40-42-47	710*/44-45-49	719*/46-46-50		
			712**47-49-53	722**50-51-55		
49	741	693F/41-43-48	727*/46-47-51	736*/47-48-52		
			729**48-50-54	739**51-52-56		
46	761	707F/42-44-50	744*/47-48-53	754*/48-49-54		
			746**49-50-55	756**51-53-57		
43	781	721F/43-45-51	762*/48-50-55	772*/49-51-55		
			763**49-51-56	774**52-54-58		
40	801	734F/44-46-52	780*/49-51-56	790*/51-52-57		
37	821	747F/44-47-54	797*/50-52-57	806*/50-52-57		
34	841	759F/45-48-55	810*/49-52-58	819*/49-52-58		
31	861	772F/46-49-56	823*/48-51-58	832*/49-51-58		
28	862	779F/46-50-57	829*/48-51-58	838*/49-51-58		
25	862	783F/46-50-57	831*/48-51-58	840*/49-51-58		
22	862	786F/47-51-58	833*/48-51-58	842*/49-51-58		
19	862	790F/47-51-58	835*/48-51-58	844*/49-51-58		
16	862	794F/47-51-58	836*/48-51-58	846*/49-51-58		
13	862	797F/47-51-58	838*/48-51-58	848*/49-51-58		
10	862	801F/47-51-58	840*/48-51-58	850*/49-51-58		
5	862	808F/47-51-58	843*/48-51-58	853*/49-51-58		
0	862	814F/47-51-58	846*/48-51-58	856*/49-51-58		
-5	862	820*/47-51-58	849*/49-51-58	859*/49-51-58		
-10	862	823*/47-51-58	852*/49-51-58	862*/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2601 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03L/R/P 72 1290 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03L/S VTBD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				LANGMANJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT C	100KG	-10	0	10
61A	671	657*/39-40-44	680*/42-42-45	687*/42-42-45
		661**45-47-51	687**49-50-54	696**50-52-55
58A	687	672*/40-42-46	695*/43-43-47	703*/43-43-47
		675**46-48-52	702**51-53-56	711**52-54-57
55A	703	686*/42-43-47	711*/44-45-49	718*/45-45-49
		689**47-49-53	717**52-54-57	726**53-55-58
52	722	703*/43-44-49	728*/46-46-50	735*/46-46-50
		705**47-50-54	734**53-55-59	743**55-57-60
49	741	720*/44-46-51	745*/47-48-52	753*/47-48-52
		722**48-51-55	751**55-57-61	761**56-58-62
46	761	737*/45-47-52	764*/49-50-54	772*/49-50-54
		739**48-51-55	769**55-58-62	779**57-60-64
43	781	755*/46-49-54	782*/50-52-56	790*/50-52-56
		756**48-51-56	786**55-57-62	790**53-55-59
40	801	773*/48-50-56	800*/50-52-57	807*/51-52-57
37	821	790*/49-52-57	814*/50-52-57	822*/50-52-57
34	841	800B/48-52-58	828*/49-52-58	837*/49-52-58
31	861	811B/47-51-58	843*/48-51-58	851*/49-51-58
28	862	820B/47-51-58	849*/48-51-58	858*/49-51-58
25	862	823*/47-51-58	851*/48-51-58	860*/49-51-58
22	862	825*/47-51-58	852*/48-51-58	861*/49-51-58
19	862	827*/47-51-58	854*/48-51-58	862F/49-51-58
16	862	829*/47-51-58	856*/48-51-58	862F/49-51-58
13	862	830*/47-51-58	858*/48-51-58	862F/49-51-58
10	862	832*/47-51-58	860*/48-51-58	862F/49-51-58
5	862	835*/47-51-58	862F/48-51-58	862F/49-51-58
0	862	838*/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	841*/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	843*/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2979 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03L/S 72 1290 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03R VTBD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF
737-800 CFM56-7B26
 LANGMAN JICHANG
 MG/INTERNATIONAL
 DATED 10-JUN-2019

OAT C 100KG	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
		-10	0	10
61A	671	662*/40-41-45	681*/42-42-45	687*/42-42-45
		673**50-53-56	696**54-56-59	704**55-57-60
58A	687	677*/41-42-46	697*/43-43-47	703*/43-43-47
		688**51-54-58	712**55-57-61	720**56-58-62
55A	703	692*/42-44-48	713*/44-45-49	719*/45-45-49
		703**51-54-58	728**56-59-62	736**57-60-63
52	722	709*/44-45-49	730*/46-46-50	737*/46-46-50
		719**51-54-58	745**57-60-64	753**59-61-65
49	741	727*/45-47-51	748*/47-48-52	755*/47-48-52
		736**52-55-60	762**58-61-65	771**60-63-67
46	761	745*/46-48-53	768*/49-50-54	774*/49-50-54
		753**52-55-59	781**59-62-66	790**60-63-67
43	781	764*/47-50-55	786*/50-52-56	793*/50-52-56
		768**50-53-58	790**53-55-59	790**53-55-59
40	801	782*/49-52-56	804*/50-52-57	811*/51-52-57
37	821	790B/49-52-57	820*/50-52-57	828*/50-52-57
34	841	800B/48-52-58	836*/49-52-58	843*/49-52-58
31	861	811B/47-51-58	852*/48-51-58	860*/49-51-58
28	862	820B/47-51-58	858*/48-51-58	862F/49-51-58
25	862	828B/47-51-58	860*/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	839*/47-51-58	862F/48-51-58	862F/49-51-58
16	862	841*/47-51-58	862F/48-51-58	862F/49-51-58
13	862	842*/47-51-58	862F/48-51-58	862F/49-51-58
10	862	844*/47-51-58	862F/48-51-58	862F/49-51-58
5	862	846*/47-51-58	862F/48-51-58	862F/49-51-58
0	862	848*/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	851*/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	852*/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3500 M LONG WITH 150 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03R 72 1070 0 118 1800 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03R/S VTBD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				LANGMANJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
61A	671	656*/39-40-44 665**47-50-54	676*/42-42-45 689**53-55-58	682*/42-42-45 697**54-56-59
58A	687	671*/40-41-46 680**48-51-55	691*/43-43-47 705**54-56-60	698*/43-43-47 713**55-57-61
55A	703	686*/42-43-47 695**49-51-55	707*/44-45-49 720**55-58-61	714*/45-45-49 729**57-59-62
52	722	703*/43-44-49 711**49-52-56	724*/46-46-50 737**56-59-63	731*/46-46-50 746**58-61-64
49	741	720*/44-46-51 728**50-53-57	742*/47-48-52 755**56-59-63	750*/47-48-52 764**58-61-65
46	761	738*/45-48-52 745**50-54-58	761*/49-50-54 773**57-59-63	769*/49-50-54 782**59-62-66
43	781	756*/47-49-54 761**51-54-59	780*/50-52-56 790**57-60-64	788*/50-52-56 790**53-55-59
40	801	775*/48-51-56 778**50-53-58	799*/50-52-57	805*/51-52-57
37	821	790B/49-52-57	815*/50-52-57	822*/50-52-57
34	841	800B/48-52-58	830*/49-52-58	837*/49-52-58
31	861	811B/47-51-58	845*/48-51-58	853*/49-51-58
28	862	820B/47-51-58	852*/48-51-58	860*/49-51-58
25	862	828B/47-51-58	853*/48-51-58	861*/49-51-58
22	862	830*/47-51-58	855*/48-51-58	862F/49-51-58
19	862	832*/47-51-58	857*/48-51-58	862F/49-51-58
16	862	833*/47-51-58	858*/48-51-58	862F/49-51-58
13	862	835*/47-51-58	860*/48-51-58	862F/49-51-58
10	862	836*/47-51-58	861*/48-51-58	862F/49-51-58
5	862	839*/47-51-58	862F/48-51-58	862F/49-51-58
0	862	841*/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	843*/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	845*/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3309 M LONG WITH 150 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03R/S 72 1070 0 118 1800 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 03R/W VTBD

LANGMAN JICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	671	639*/37-38-42	661*/40-41-45 667**46-47-51	668*/41-41-45 676**48-49-53
58A	687	653*/38-39-44	676*/42-42-46 681**47-48-52	683*/43-43-47 691**49-50-54
55A	703	667*/39-41-45	691*/43-43-48 696**47-49-53	698*/44-44-48 706**50-51-55
52	722	682*/41-42-47	708*/44-45-49 712**50-52-56	715*/45-46-50 721**49-50-54
49	741	698*/42-44-49	725*/45-46-51 728**49-50-55	733*/47-47-52 738**53-55-59
46	761	715*/43-45-50	743*/47-48-53 746**50-52-57	751*/48-49-53 756**53-56-60
43	781	730F/44-46-52	761*/48-50-54 763**50-53-57	770*/49-51-55 774**53-56-60
40	801	743F/45-47-53	780*/49-51-56 781**51-54-59	789*/50-52-57 790**51-53-58
37	821	756F/45-48-55	797*/50-52-57	805*/50-52-57
34	841	769F/46-49-56	810*/49-52-58	819*/49-52-58
31	861	782F/47-50-57	823*/48-51-58	832*/49-51-58
28	862	789F/47-51-58	828*/48-51-58	838*/49-51-58
25	862	792F/47-51-58	831*/48-51-58	840*/49-51-58
22	862	796F/47-51-58	832*/48-51-58	842*/49-51-58
19	862	800F/47-51-58	834*/48-51-58	844*/49-51-58
16	862	804F/47-51-58	836*/48-51-58	846*/49-51-58
13	862	807F/47-51-58	838*/48-51-58	848*/49-51-58
10	862	811*/47-51-58	840*/48-51-58	850*/49-51-58
5	862	814*/47-51-58	843*/48-51-58	853*/49-51-58
0	862	817*/47-51-58	846*/48-51-58	856*/49-51-58
-5	862	820*/47-51-58	849*/49-51-58	858*/49-51-58
-10	862	822*/47-51-58	852*/49-51-58	860*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2819 M LONG WITH 150 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03R/W 72 1070 0 118 1800 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21L VTBD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				LANGMANJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
61A	671	670*/41-42-45 681**47-49-52	687*/42-42-45 705**55-57-60	693*/42-42-45 705**55-57-60
58A	687	685*/42-43-47	703*/43-43-47	706*/43-43-47
		696**48-50-53	721**56-58-61	722**56-59-62
55A	703	701*/43-45-48 711**48-51-54	707*/44-45-49 737**56-59-62	707*/45-45-49 740**58-60-64
52	722	718*/45-46-50 727**49-52-55	724*/46-46-50 755**57-60-63	724*/46-46-50 759**60-62-66
49	741	736*/46-48-52	746*/47-48-52	746*/47-48-52
		744**50-52-56	773**58-61-64	779**61-64-68
46	761	755*/47-49-54 762**50-53-57	768*/49-50-54 790**58-61-65	768*/49-50-54 790**58-61-65
43	781	774*/48-51-56 776**49-52-56	789*/50-52-56 790**53-55-59	789*/50-52-56 790**53-55-59
40	801	784B/49-52-57	809*/50-52-57	809*/51-52-57
37	821	790B/49-52-57	829*/50-52-57	830*/50-52-57
34	841	800B/48-52-58	845*/49-52-58	851*/49-52-58
31	861	811B/47-51-58	862*/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	848*/47-51-58	862F/48-51-58	862F/49-51-58
13	862	850*/47-51-58	862F/48-51-58	862F/49-51-58
10	862	852*/47-51-58	862F/48-51-58	862F/49-51-58
5	862	855*/47-51-58	862F/48-51-58	862F/49-51-58
0	862	858*/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	861*/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 920 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3500 M LONG WITH 150 M OF CLEARWAY AND 100 M OF STOPWAY
 RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21L 10 210 0 43 630 0 85 1890 0
 128 2300 0 151 2970 0 361 8835 0
 558 24041 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21L/D VTBD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF
 737-800 CFM56-7B26
 LANGMAN JICHANG
 MG/INTERNATIONAL
 DATED 10-JUN-2019

OAT C 100KG	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
		-10	0	10
61A	671	659*/39-40-44	679*/42-42-45 687**47-48-52	685*/42-42-45 696**51-52-55
58A	687	674*/41-42-46	694*/43-43-47 702**48-49-53	701*/43-43-47 712**52-53-56
55A	703	688*/42-43-47	707*/44-45-49 717**49-50-54	707*/45-45-49 727**52-54-57
52	722	703*/43-44-49	724*/46-46-50 734**49-51-55	724*/46-46-50 743**53-55-58
49	741	720*/44-46-51	746*/47-48-52 751**50-52-56	746*/47-48-52 761**54-56-59
46	761	737*/45-47-52	765*/49-50-54 769**51-53-57	768*/49-50-54 779**54-56-60
43	781	754*/46-49-54	784*/50-52-56 786**53-55-59	789*/50-52-56 790**53-55-59
40	801	771*/47-50-56	801*/50-52-57	809*/51-52-57
37	821	787*/48-52-57	815*/50-52-57	824*/50-52-57
34	841	799*/48-52-58	828*/49-52-58	837*/49-52-58
31	861	811*/47-51-58	840*/48-51-58	850*/49-51-58
28	862	816*/47-51-58	846*/48-51-58	856*/49-51-58
25	862	818*/47-51-58	848*/48-51-58	858*/49-51-58
22	862	820*/47-51-58	850*/48-51-58	860*/49-51-58
19	862	822*/47-51-58	853*/48-51-58	862F/49-51-58
16	862	825*/47-51-58	855*/48-51-58	862F/49-51-58
13	862	827*/47-51-58	857*/48-51-58	862F/49-51-58
10	862	829*/47-51-58	859*/48-51-58	862F/49-51-58
5	862	832*/47-51-58	862F/48-51-58	862F/49-51-58
0	862	835*/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	839*/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	842*/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 890 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3115 M LONG WITH 150 M OF CLEARWAY AND 100 M OF STOPWAY
 RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21L/D 10 210 0 43 630 0 85 1890 0
 128 2300 0 151 2970 0 361 8835 0
 558 24041 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21R VTBD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

LANGMANJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	671	678*/41-42-45 705**54-57-60	692*/42-42-45 705**55-57-60	696*/42-42-45 705**55-57-60
58A	687	694*/42-43-47 718**54-56-60	708*/43-43-47 722**56-59-62	712*/43-43-47 722**56-59-62
55A	703	711*/44-45-49 731**53-55-59	725*/44-45-49 740**58-60-64	729*/45-45-49 740**58-60-64
52	722	729*/45-46-50 742**52-54-58	743*/46-46-50 759**59-62-66	748*/46-46-50 759**60-62-66
49	741	747*/46-48-52 755**51-53-57	762*/47-48-52 779**61-64-68	767*/47-48-52 779**61-64-68
46	761	767*/48-50-54 768**50-52-56	782*/49-50-54 790**58-61-65	787*/49-50-54 790**58-61-65
43	781	779B/49-51-56	802*/50-52-56 790**53-55-59	807*/50-52-56 790**53-55-59
40	801	784B/49-52-57	821*/50-52-57	826*/51-52-57
37	821	790B/49-52-57	840*/50-52-57	845*/50-52-57
34	841	800B/48-52-58	858*/49-52-58	862F/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	853B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	861B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 510 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3700 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
21R 10 300 0 102 2375 0 295 6570 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21R/E VTBD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF LANGMAN JICHANG
 737-800 CFM56-7B26 MG/INTERNATIONAL
 DATED 10-JUN-2019

C OAT CLIMB 100KG	737-800	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
		-10	0	10
61A	671	673*/41-42-45 688**47-49-52	687*/42-42-45 705**55-57-60	692*/42-42-45 705**55-57-60
58A	687	689*/42-43-47	704*/43-43-47	708*/43-43-47
	703	703**48-50-53	722**56-59-62	722**56-59-62
55A	703	705*/44-45-49 718**48-50-54	720*/44-45-49 739**57-60-63	725*/45-45-49 740**58-60-64
52	722	723*/45-46-50 734**49-51-55	738*/46-46-50 756**58-61-64	743*/46-46-50 759**60-62-66
49	741	742*/46-48-52 751**50-52-56	757*/47-48-52 774**59-61-65	762*/47-48-52 779**61-64-68
46	761	762*/48-50-54 767**50-52-56	777*/49-50-54 790**58-61-65	782*/49-50-54 790**58-61-65
43	781	779B/49-51-56	797*/50-52-56 790**53-55-59	802*/50-52-56 790**53-55-59
40	801	784B/49-52-57	816*/50-52-57	821*/51-52-57
37	821	790B/49-52-57	834*/50-52-57	840*/50-52-57
34	841	800B/48-52-58	852*/49-52-58	858*/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	848*/47-51-58	862F/48-51-58	862F/49-51-58
13	862	850*/47-51-58	862F/48-51-58	862F/49-51-58
10	862	853*/47-51-58	862F/48-51-58	862F/49-51-58
5	862	857*/47-51-58	862F/48-51-58	862F/49-51-58
0	862	861*/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 510 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3233 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDALINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21R/E 10 300 0 102 2375 0 295 6570 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 21R/F/H VTBD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				LANGMANJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26		61A	671 638*/37-38-42 674*/42-42-45 685*/42-42-45
				673**42-43-46 681**45-46-49
			58A	687 650*/38-39-44 687*/43-43-47 700*/43-43-47
				696**46-47-50
			55A	703 662*/39-40-45 701*/44-45-48 714*/45-45-49
				711**47-47-51
			52	722 676*/40-41-46 715*/45-46-50 729*/46-46-50
				727**47-48-52
			49	741 690F/41-43-48 731*/46-47-51 744*/47-48-52
				743**48-49-53
			46	761 705F/42-44-49 747*/47-48-53 761*/49-50-54
			43	781 718F/43-45-51 762*/48-50-55 777*/50-51-56
			40	801 731F/43-46-52 779*/49-51-56 793*/51-52-57
			37	821 744F/44-47-54 794*/50-52-57 805*/50-52-57
			34	841 756F/45-48-55 803*/49-52-58 814*/49-52-58
			31	861 769F/45-49-56 813*/48-51-58 824*/49-51-58
			28	862 776F/46-50-57 818*/48-51-58 829*/49-51-58
			25	862 779F/46-50-57 820*/48-51-58 832*/49-51-58
			22	862 783F/46-50-57 823*/48-51-58 834*/49-51-58
			19	862 787F/47-51-58 825*/48-51-58 837*/49-51-58
			16	862 790F/47-51-58 828*/48-51-58 840*/49-51-58
			13	862 794F/47-51-58 830*/48-51-58 842*/49-51-58
			10	862 798F/47-51-58 833*/48-51-58 845*/49-51-58
			5	862 803*/47-51-58 837*/48-51-58 849*/49-51-58
			0	862 806*/47-51-58 842*/48-51-58 853*/49-51-58
			-5	862 810*/47-51-58 846*/49-51-58 858*/49-51-58
			-10	862 814*/47-51-58 850*/49-51-58 862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 480 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2579 M LONG WITH 150 M OF CLEARWAY AND 150 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21R/F/H 10 300 0 102 2375 0 295 6570 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01L VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF SUWANNAPUJICHANG
 737-800 CFM56-7B26 MG/INTERNATIONAL
 A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE DATED 10-JUN-2019

OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10
61A	671	719*/41-42-45	726*/42-42-45	726*/42-42-45		
		705**54-57-60	705**55-57-60	705**55-57-60		
58A	687	735*/42-43-47	744*/43-43-47	744*/43-43-47		
		718**54-56-60	722**56-59-62	722**56-59-62		
55A	703	751*/44-45-49	762*/44-45-49	763*/45-45-49		
		731**53-55-59	740**58-60-64	740**58-60-64		
52	722	769*/45-46-50	783*/46-46-50	783*/46-46-50		
		742**52-54-58	759**59-62-66	759**60-62-66		
49	741	788*/46-48-52	803*/47-48-52	804*/47-48-52		
		755**51-53-57	779**61-64-68	779**61-64-68		
46	761	786B/48-50-54	825*/49-50-54	826*/49-50-54		
		768**50-52-56	790**58-61-65	790**58-61-65		
43	781	779B/49-51-56	846*/50-52-56	848*/50-52-56		
			790**53-55-59	790**53-55-59		
40	801	784B/49-52-57	862F/50-52-57	862F/51-52-57		
37	821	790B/49-52-57	862F/50-52-57	862F/50-52-57		
34	841	800B/48-52-58	862F/49-52-58	862F/49-52-58		
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58		
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58		
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58		
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58		
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58		
16	862	853B/47-51-58	862F/48-51-58	862F/49-51-58		
13	862	861B/47-51-58	862F/48-51-58	862F/49-51-58		
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58		
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58		
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58		
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58		
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3700 M LONG WITH 1100 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01L 30 1324 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01L/E15 VTBS

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	SUWANNAPUJICHANG MG/INTERNATIONAL
737-800		CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
C	100KG	-10	0	10		
61A	671	636F/37-38-42	682F/42-42-45	699F/42-42-45		
			676**43-44-47	684**46-47-50		
58A	687	647F/37-39-43	694F/43-43-47	710F/43-43-47		
			691**44-45-48	698**47-47-51		
55A	703	659F/38-40-45	706F/44-45-49	721F/45-45-49		
			705**45-45-49	713**47-48-52		
52	722	671F/39-41-46	719F/45-46-50	734F/46-46-50		
				728**48-49-53		
49	741	684F/40-42-47	732F/46-47-52	748F/47-48-52		
				744**49-49-54		
46	761	697F/41-43-49	746F/47-48-53	762F/49-50-54		
43	781	710F/42-44-50	759F/48-49-54	776F/50-51-56		
40	801	723F/43-45-51	773F/49-51-56	790F/51-52-57		
37	821	736F/43-46-53	787F/49-52-57	804F/50-52-57		
34	841	748F/44-47-54	799F/49-52-58	818F/49-52-58		
31	861	760F/44-48-55	813F/48-51-58	831F/49-51-58		
28	862	767F/45-49-56	820F/48-51-58	839F/49-51-58		
25	862	771F/45-49-56	824F/48-51-58	843F/49-51-58		
22	862	774F/46-50-57	828F/48-51-58	847F/49-51-58		
19	862	778F/46-50-57	832F/48-51-58	851F/49-51-58		
16	862	782F/46-50-57	836F/48-51-58	855F/49-51-58		
13	862	785F/47-51-57	840F/48-51-58	860F/49-51-58		
10	862	789F/47-51-58	845F/48-51-58	862F/49-51-58		
5	862	795F/47-51-58	852F/48-51-58	862F/49-51-58		
0	862	802F/47-51-58	859F/48-51-58	862F/49-51-58		
-5	862	808F/47-51-58	862F/49-51-58	862F/49-51-58		
-10	862	815F/47-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2670 M LONG WITH 1100 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01L/E15 30 1324 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01L/E19 VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

SUWANNAPUJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	671	716*/41-42-45 701**52-55-58	726*/42-42-45 705**55-57-60	726*/42-42-45 705**55-57-60
58A	687	732*/42-43-47 717**53-55-59	744*/43-43-47 722**56-59-62	744*/43-43-47 722**56-59-62
55A	703	749*/44-45-49 731**53-55-59	762*/44-45-49 740**58-60-64	763*/45-45-49 740**58-60-64
52	722	766*/45-46-50 742**52-54-58	783*/46-46-50 759**59-62-66	783*/46-46-50 759**60-62-66
49	741	785*/46-48-52 755**51-53-57	803*/47-48-52 779**61-64-68	804*/47-48-52 779**61-64-68
46	761	786B/48-50-54 768**50-52-56	823*/49-50-54 790**58-61-65	826*/49-50-54 790**58-61-65
43	781	779B/49-51-56	843*/50-52-56 790**53-55-59	848*/50-52-56 790**53-55-59
40	801	784B/49-52-57	862*/50-52-57	862F/51-52-57
37	821	790B/49-52-57	862F/50-52-57	862F/50-52-57
34	841	800B/48-52-58	862F/49-52-58	862F/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	853B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	861B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3590 M LONG WITH 1100 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
01L/E19 30 1324 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01R VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF SUWANNAPUJICHANG
 737-800 CFM56-7B26 MG/INTERNATIONAL
 DATED 10-JUN-2019

C OAT CLIMB 100KG	61A 58A 55A 52 49 46 43 40 37 34 31 28 25 22 19 16 13 10 5 0 -5 -10	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
		-10	0	10
664*/40-41-45	680*/42-42-45	685*/42-42-45		
686**52-54-58	705**55-57-60	705**55-57-60		
680*/41-42-46	696*/43-43-47	701*/43-43-47		
702**53-56-60	722**56-58-62	722**56-59-62		
696*/43-44-48	712*/44-45-49	718*/45-45-49		
718**54-57-61	738**58-60-64	740**58-60-64		
713*/44-46-50	730*/46-46-50	736*/46-46-50		
733**53-56-60	757**59-62-65	759**60-62-66		
732*/45-47-52	749*/47-48-52	754*/47-48-52		
747**52-55-59	775**61-64-67	779**61-64-68		
751*/47-49-53	769*/49-50-54	774*/49-50-54		
761**51-53-58	790**58-61-65	790**58-61-65		
770*/48-51-55	788*/50-52-56	793*/50-52-56		
774**50-52-57	790**53-55-59	790**53-55-59		
784B/49-52-57	807*/50-52-57	812*/51-52-57		
790B/49-52-57	825*/50-52-57	831*/50-52-57		
800B/48-52-58	842*/49-52-58	848*/49-52-58		
811B/47-51-58	860*/48-51-58	862F/49-51-58		
820B/47-51-58	862F/48-51-58	862F/49-51-58		
828B/47-51-58	862F/48-51-58	862F/49-51-58		
836B/47-51-58	862F/48-51-58	862F/49-51-58		
844B/47-51-58	862F/48-51-58	862F/49-51-58		
852*/47-51-58	862F/48-51-58	862F/49-51-58		
853*/47-51-58	862F/48-51-58	862F/49-51-58		
854*/47-51-58	862F/48-51-58	862F/49-51-58		
856*/47-51-58	862F/48-51-58	862F/49-51-58		
857*/47-51-58	862F/48-51-58	862F/49-51-58		
859*/47-51-58	862F/49-51-58	862F/49-51-58		
860*/47-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01R 154 3916 0 253 4164 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01R/B11 VTBS

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
OAT	CLIMB	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10	
61A	671	643*/37-39-43 644**38-39-43	661*/40-41-44 671**45-47-50	666*/41-41-45 681**48-49-53	
58A	687	657F/39-40-44	676*/42-42-46 686**46-47-51	682*/43-43-47 695**49-50-53	
55A	703	669F/40-41-46	692*/43-44-48 700**47-48-52	698*/44-44-48 710**49-51-54	
52	722	683F/41-42-47	709*/44-45-49 717**48-49-53	715*/45-46-50 726**50-52-55	
49	741	697F/42-43-49	727*/46-47-51 733**48-50-54	733*/47-47-52 743**51-52-56	
46	761	711F/43-45-50	746*/47-48-53 751**49-51-55	753*/48-49-54 761**52-53-57	
43	781	725F/43-46-51	764*/48-50-55 768**50-52-56	771*/49-51-55 779**52-54-59	
40	801	738F/44-47-53	784*/50-52-57 785**50-53-57	791*/51-52-57	
37	821	751F/45-48-54	801*/50-52-57	808*/50-52-57	
34	841	763F/45-49-55	816F/49-52-58	825*/49-52-58	
31	861	776F/46-50-57	829F/48-51-58	842*/49-51-58	
28	862	783F/46-50-57	837F/48-51-58	848*/49-51-58	
25	862	787F/47-51-58	841F/48-51-58	850*/49-51-58	
22	862	790F/47-51-58	844*/48-51-58	851*/49-51-58	
19	862	794F/47-51-58	845*/48-51-58	852*/49-51-58	
16	862	798F/47-51-58	846*/48-51-58	854*/49-51-58	
13	862	802F/47-51-58	847*/48-51-58	855*/49-51-58	
10	862	806F/47-51-58	849*/48-51-58	856*/49-51-58	
5	862	812F/47-51-58	851*/48-51-58	858*/49-51-58	
0	862	819F/47-51-58	852*/48-51-58	860*/49-51-58	
-5	862	825F/47-51-58	854*/49-51-58	861*/49-51-58	
-10	862	832F/47-51-58	855*/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01R/B11 154 3916 0 253 4164 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 01R/B12 VTBS

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
737-800 CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 671	662*/40-41-45 684**51-54-58	678*/42-42-45 703**54-57-60	684*/42-42-45 705**55-57-60	
58A 687	678*/41-42-46	694*/43-43-47	700*/43-43-47	
	700**53-56-59	719**56-58-62	722**56-59-62	
55A 703	694*/43-44-48 716**54-57-61	711*/44-45-49 736**57-60-63	716*/45-45-49 740**58-60-64	
52 722	711*/44-45-50	729*/46-46-50	734*/46-46-50	
	731**53-56-60	754**59-62-65	759**60-62-66	
49 741	730*/45-47-51	747*/47-48-52	753*/47-48-52	
	745**52-55-59	773**60-63-67	779**61-64-68	
46 761	749*/47-49-53	767*/49-50-54	773*/49-50-54	
	759**51-54-58	790**59-62-66	790**58-61-65	
43 781	768*/48-50-55	786*/50-52-56	792*/50-52-56	
	773**50-53-57	790**53-55-59	790**53-55-59	
40 801	784B/49-52-57	805*/50-52-57	811*/51-52-57	
37 821	790B/49-52-57	823*/50-52-57	829*/50-52-57	
34 841	800B/48-52-58	840*/49-52-58	846*/49-52-58	
31 861	811B/47-51-58	858*/48-51-58	862F/49-51-58	
28 862	820B/47-51-58	862F/48-51-58	862F/49-51-58	
25 862	828B/47-51-58	862F/48-51-58	862F/49-51-58	
22 862	836B/47-51-58	862F/48-51-58	862F/49-51-58	
19 862	844B/47-51-58	862F/48-51-58	862F/49-51-58	
16 862	850*/47-51-58	862F/48-51-58	862F/49-51-58	
13 862	851*/47-51-58	862F/48-51-58	862F/49-51-58	
10 862	852*/47-51-58	862F/48-51-58	862F/49-51-58	
5 862	854*/47-51-58	862F/48-51-58	862F/49-51-58	
0 862	855*/47-51-58	862F/48-51-58	862F/49-51-58	
-5 862	856*/47-51-58	862F/49-51-58	862F/49-51-58	
-10 862	857*/47-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3890 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
01R/B12 154 3916 0 253 4164 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19L VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

SUWANNAPUJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	671	720*/41-42-45 705**54-57-60	726*/42-42-45 705**55-57-60	726*/42-42-45 705**55-57-60
58A	687	737*/42-43-47 718**54-56-60	744*/43-43-47 722**56-59-62	744*/43-43-47 722**56-59-62
55A	703	754*/44-45-49 731**53-55-59	762*/44-45-49 740**58-60-64	763*/45-45-49 740**58-60-64
52	722	772*/45-46-50 742**52-54-58	783*/46-46-50 759**59-62-66	783*/46-46-50 759**60-62-66
49	741	790*/46-48-52 755**51-53-57	803*/47-48-52 779**61-64-68	804*/47-48-52 779**61-64-68
46	761	786B/48-50-54 768**50-52-56	825*/49-50-54 790**58-61-65	826*/49-50-54 790**58-61-65
43	781	779B/49-51-56	847*/50-52-56 790**53-55-59	848*/50-52-56 790**53-55-59
40	801	784B/49-52-57	862F/50-52-57	862F/51-52-57
37	821	790B/49-52-57	862F/50-52-57	862F/50-52-57
34	841	800B/48-52-58	862F/49-52-58	862F/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	853B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	861B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 550 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
19L 30 1109 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19L/B2 VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF SUWANNAPUJICHANG
 737-800 CFM56-7B26 MG/INTERNATIONAL
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	671	717*/41-42-45 705**54-57-60	726*/42-42-45 705**55-57-60	726*/42-42-45 705**55-57-60
58A	687	734*/42-43-47 718**54-56-60	744*/43-43-47 722**56-59-62	744*/43-43-47 722**56-59-62
55A	703	750*/44-45-49 731**53-55-59	762*/44-45-49 740**58-60-64	763*/45-45-49 740**58-60-64
52	722	768*/45-46-50 742**52-54-58	783*/46-46-50 759**59-62-66	783*/46-46-50 759**60-62-66
49	741	787*/46-48-52 755**51-53-57	803*/47-48-52 779**61-64-68	804*/47-48-52 779**61-64-68
46	761	786B/48-50-54 768**50-52-56	825*/49-50-54 790**58-61-65	826*/49-50-54 790**58-61-65
43	781	779B/49-51-56	845*/50-52-56 790**53-55-59	848*/50-52-56 790**53-55-59
40	801	784B/49-52-57	862F/50-52-57	862F/51-52-57
37	821	790B/49-52-57	862F/50-52-57	862F/50-52-57
34	841	800B/48-52-58	862F/49-52-58	862F/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	853B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	861B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3870 M LONG WITH 550 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19L/B2 30 1109 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19L/B3 VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

SUWANNAPUJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	671	673F/41-42-45 672**41-42-46	710*/42-42-45 693**49-51-54	716*/42-42-45 699**52-53-57
58A	687	685F/42-43-47	726*/43-43-47 707**50-51-55	732*/43-43-47 714**53-54-57
55A	703	697F/43-44-48	742*/44-45-49 722**50-52-55	748*/45-45-49 729**53-55-58
52	722	710F/44-45-49	756F/46-46-50 738**51-53-56	766*/46-46-50 745**54-55-59
49	741	723F/44-46-51	770F/47-48-52 755**52-53-57	784*/47-48-52 762**54-56-60
46	761	736F/45-47-52	784F/49-50-54 773**52-54-58	801F/49-50-54 780**55-57-61
43	781	749F/46-48-54	799F/50-52-56 790**53-55-59	816F/50-52-56 790**53-55-59
40	801	763F/47-50-55	814F/50-52-57	831F/51-52-57
37	821	777F/47-51-56	828F/50-52-57	846F/50-52-57
34	841	790F/48-52-57	842F/49-52-58	860F/49-52-58
31	861	803F/47-51-58	857F/48-51-58	862F/49-51-58
28	862	810F/47-51-58	862F/48-51-58	862F/49-51-58
25	862	813F/47-51-58	862F/48-51-58	862F/49-51-58
22	862	817F/47-51-58	862F/48-51-58	862F/49-51-58
19	862	821F/47-51-58	862F/48-51-58	862F/49-51-58
16	862	825F/47-51-58	862F/48-51-58	862F/49-51-58
13	862	829F/47-51-58	862F/48-51-58	862F/49-51-58
10	862	833F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	840F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	847F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	854F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	861F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2970 M LONG WITH 550 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
19L/B3 30 1109 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF SUWANNAPUJICHANG
 737-800 CFM56-7B26 MG/INTERNATIONAL
 DATED 10-JUN-2019

OAT C 100KG	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
		-10	0	10
61A	671	685*/41-42-45 705**54-57-60	699*/42-42-45 705**55-57-60	704*/42-42-45 705**55-57-60
58A	687	702*/42-43-47 718**54-56-60	716*/43-43-47 722**56-59-62	721*/43-43-47 722**56-59-62
55A	703	718*/44-45-49 731**53-55-59	732*/44-45-49 740**58-60-64	738*/45-45-49 740**58-60-64
52	722	736*/45-46-50 742**52-54-58	751*/46-46-50 759**59-62-66	756*/46-46-50 759**60-62-66
49	741	754*/46-48-52 755**51-53-57	770*/47-48-52 779**61-64-68	775*/47-48-52 779**61-64-68
46	761	774*/48-50-54 768**50-52-56	790*/49-50-54 790**58-61-65	795*/49-50-54 790**58-61-65
43	781	779B/49-51-56	810*/50-52-56 790**53-55-59	815*/50-52-56 790**53-55-59
40	801	784B/49-52-57	829*/50-52-57	834*/51-52-57
37	821	790B/49-52-57	847*/50-52-57	853*/50-52-57
34	841	800B/48-52-58	862F/49-52-58	862F/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	853B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	861B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT
 LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=-OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB
 RUNWAY IS 3700 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19R 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R/D4 VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

SUWANNAPUJICHANG
MG/INTERNATIONAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	671	678*/41-42-45 685**46-47-51	693*/42-42-45 703**54-56-59	698*/42-42-45 705**55-57-60
58A	687	694*/42-43-47 699**46-48-52	709*/43-43-47 718**54-56-60	714*/43-43-47 722**56-59-62
55A	703	710*/44-45-49 714**47-49-52	726*/44-45-49 734**55-57-60	731*/45-45-49 739**58-60-63
52	722	728*/45-46-50 730**47-49-53	744*/46-46-50 751**55-58-61	749*/46-46-50 756**58-61-64
49	741	747*/46-48-52 746**48-50-54	763*/47-48-52 768**56-58-62	768*/47-48-52 774**59-61-65
46	761	765F/48-50-54 763**48-51-55	783*/49-50-54 786**57-59-63	788*/49-50-54 790**58-61-65
43	781	779B/49-51-56	802*/50-52-56 790**53-55-59	808*/50-52-56 790**53-55-59
40	801	784B/49-52-57	821*/50-52-57	827*/51-52-57
37	821	790B/49-52-57	839*/50-52-57	845*/50-52-57
34	841	800B/48-52-58	857*/49-52-58	862F/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	853B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	858F/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3212 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19R/D4 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R/E2 VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF SUWANNAPUJICHANG
 737-800 CFM56-7B26 MG/INTERNATIONAL
 DATED 10-JUN-2019

		A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	671	684*/41-42-45 701**52-55-58	698*/42-42-45 705**55-57-60	703*/42-42-45 705**55-57-60
58A	687	700*/42-43-47	714*/43-43-47	719*/43-43-47
		717**53-55-59	722**56-59-62	722**56-59-62
55A	703	716*/44-45-49 731**53-55-59	731*/44-45-49 740**58-60-64	736*/45-45-49 740**58-60-64
52	722	734*/45-46-50	749*/46-46-50	754*/46-46-50
		742**52-54-58	759**59-62-66	759**60-62-66
49	741	753*/46-48-52	768*/47-48-52	774*/47-48-52
		755**51-53-57	779**61-64-68	779**61-64-68
46	761	773*/48-50-54	788*/49-50-54	794*/49-50-54
		768**50-52-56	790**58-61-65	790**58-61-65
43	781	779B/49-51-56	808*/50-52-56	813*/50-52-56
			790**53-55-59	790**53-55-59
40	801	784B/49-52-57	827*/50-52-57	833*/51-52-57
37	821	790B/49-52-57	846*/50-52-57	851*/50-52-57
34	841	800B/48-52-58	862F/49-52-58	862F/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	853B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	861B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3590 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDALINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19R/E2 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R/E3 VTBS

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	SUWANNAPUJICHANG MG/INTERNATIONAL DATED 10-JUN-2019
737-800		CFM56-7B26	OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10	
61A	671	675*/41-42-45 676**43-44-47	691*/42-42-45 697**51-52-55	695*/42-42-45 702**53-55-58	
58A	687	691*/42-43-47 690**43-44-48	707*/43-43-47 711**51-53-56	712*/43-43-47 717**54-56-59	
55A	703	705F/44-45-49 704**44-45-49	723*/44-45-49 726**52-53-57	729*/45-45-49 733**54-56-60	
52	722	718F/45-46-50	741*/46-46-50 742**52-54-58	747*/46-46-50 749**55-57-61	
49	741	732F/45-47-52	760*/47-48-52 759**53-55-59	766*/47-48-52 766**56-58-61	
46	761	745F/46-48-53	780*/49-50-54 777**54-56-60	785*/49-50-54 784**56-58-62	
43	781	759F/47-49-54	799*/50-52-56 790**53-55-59	805*/50-52-56 790**53-55-59	
40	801	773F/48-51-56	818*/50-52-57	824*/51-52-57	
37	821	787F/48-52-57	836*/50-52-57	842*/50-52-57	
34	841	799F/48-52-58	852F/49-52-58	860*/49-52-58	
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58	
28	862	818F/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	822F/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	826F/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	830F/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	834F/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	838F/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	842F/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	849F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	856F/47-51-58	862F/48-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3043 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19R/E3 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 7 FT

RUNWAY 19R/E5 VTBS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF SUWANNAPUJICHANG
 737-800 CFM56-7B26 MG/INTERNATIONAL
 DATED 10-JUN-2019

		A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	671	650F/38-39-44	687*/42-42-45 683**46-46-50	692*/42-42-45 690**48-49-53
58A	687	661F/39-40-45	703*/43-43-47 697**46-47-51	708*/43-43-47 704**49-50-53
55A	703	673F/40-41-46	719*/44-45-49 712**47-48-51	725*/45-45-49 719**50-51-54
52	722	686F/41-43-47	733F/46-46-50 727**47-48-52	742*/46-46-50 735**50-51-55
49	741	699F/42-44-49	746F/47-48-52 743**48-49-53	761*/47-48-52 752**51-52-56
46	761	712F/43-45-50	760F/49-50-54	777F/49-50-54 769**51-53-57
43	781	725F/43-46-51	774F/49-51-56	791F/50-52-56 786**52-53-58
40	801	738F/44-47-53	788F/50-52-57	805F/51-52-57
37	821	751F/45-48-54	802F/50-52-57	820F/50-52-57
34	841	763F/45-49-55	816F/49-52-58	834F/49-52-58
31	861	776F/46-50-57	829F/48-51-58	848F/49-51-58
28	862	783F/46-50-57	837F/48-51-58	855F/49-51-58
25	862	787F/47-51-58	841F/48-51-58	860F/49-51-58
22	862	790F/47-51-58	845F/48-51-58	862F/49-51-58
19	862	794F/47-51-58	849F/48-51-58	862F/49-51-58
16	862	798F/47-51-58	853F/48-51-58	862F/49-51-58
13	862	802F/47-51-58	857F/48-51-58	862F/49-51-58
10	862	806F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	812F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	819F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	825F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	832F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2780 M LONG WITH 700 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19R/E5 171 4002 0 171 4006 0

ENG-OUT PROCEDURE: Straight on extended RWY centerline.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3031 FT

RUNWAY 01 ZBCZ

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	WANGCUNJICHNAG CZ/NORTH CHINA DATED 10-JUN-2019
737-800 CFM56-7B26			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE	OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C 100KG	-10	0	10
61A 608	546*/26-27-32 549**28-30-34	564*/30-30-34 573**36-37-41	569*/30-30-35 581**38-40-44
58A 624	559*/28-29-34 561**29-30-35	577*/31-31-36 586**36-38-42	583*/32-32-36 594**39-40-44
55A 640	573*/29-30-35	591*/32-33-37 599**37-39-43	598*/34-34-38 608**40-41-45
52A 655	585F/30-32-37	605*/34-34-39 612**38-39-44	611*/35-35-40 621**40-42-46
49A 671	595F/31-33-38	619*/35-36-41 625**39-40-45	625*/36-36-41 634**41-42-47
46 689	606F/32-34-39	634*/36-37-42 639**39-41-45	641*/38-38-43 648**42-43-48
43 707	617F/33-35-41	650*/38-39-44 654**40-41-46	657*/39-40-45 663**43-44-49
40 725	628F/34-36-42	666*/39-40-46 669**41-42-47	673*/40-41-46 678**43-45-50
37 744	640F/34-37-44	682*/41-42-47 684**41-43-48	689*/42-43-48 694**44-45-51
34 762	650F/35-38-45	697*/42-43-49	704*/43-44-50 708**45-46-52
31 777	660F/36-39-46	709F/43-44-50	717*/44-45-51 720**45-47-52
28 790	669F/37-39-47	718F/43-45-51	729*/45-46-52 731**45-47-53
25 800	676F/37-40-48	726F/44-46-52	738*/45-47-53 740**46-48-54
22 804	681F/38-41-48	731F/44-46-52	742*/46-47-53 744**46-48-54
19 804	685F/38-41-48	734F/45-46-53	743*/46-47-53 746**47-49-55
16 805	688F/39-41-49	736*/45-47-53	744*/46-48-53 748**48-50-55
13 805	691F/39-42-49	737*/45-47-53 739**46-48-54	745*/46-48-54 750**48-50-56
10 806	695F/39-42-49	738*/45-47-53 740**46-48-54	746*/46-48-54 751**49-51-57
5 806	701F/40-43-50	739*/45-47-53 744**47-49-55	747*/46-48-54 755**50-52-58
0 807	707F/41-43-50	741*/45-47-53 747**48-50-56	749*/47-48-54 758**51-53-59
-5 808	712F/42-44-51	742*/46-47-53 750**49-52-57	750*/47-48-54 761**52-54-60
-10 808	718F/42-45-51	744*/46-47-53 753**50-53-58	751*/47-48-54 764**53-55-61

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 540 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2440 M LONG WITH 440 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.08 PERCENT FOR TODA AND 0.08 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 154 3320 0 374 4394 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3031 FT

RUNWAY 19

ZBCZ

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	WANGCUNJICHNAG CZ/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 608	561F/28-29-34	602F/35-35-38	614*/35-35-39 612**37-37-40
58A 624	572F/29-30-35	613F/36-36-39	627F/37-37-40 625**38-38-41
55A 640	582F/30-31-36	623F/36-37-41	638F/39-39-42
52A 655	592F/31-32-38	634F/37-38-42	649F/39-40-43
49A 671	602F/32-33-39	645F/38-39-43	660F/40-41-45
46 689	613F/33-35-40	657F/39-40-44	673F/41-42-46
43 707	624F/33-36-42	669F/40-41-46	685F/42-43-47
40 725	636F/34-37-43	682F/41-42-47	698F/43-44-49
37 744	647F/35-38-44	695F/42-43-49	711F/44-45-50
34 762	658F/36-39-45	706F/43-44-50	722F/45-46-51
31 777	668F/37-40-47	717F/43-45-51	733F/45-47-52
28 790	677F/37-40-47	726F/44-46-52	742F/46-48-53
25 800	684F/38-41-48	734F/44-46-53	750F/46-48-54
22 804	689F/39-42-49	739F/45-47-53	755F/47-49-54
19 804	693F/39-42-49	742F/45-47-53	759F/47-49-55
16 805	696F/39-42-49	746F/46-48-54	763F/48-50-55
13 805	700F/40-43-50	749F/46-48-54	766F/48-50-55
10 806	703F/40-43-50	753F/46-48-54	770F/48-50-56
5 806	709F/41-44-50	759F/47-49-55	777F/49-51-56
0 807	715F/42-44-51	765F/48-50-55	783F/50-52-57
-5 808	720F/42-45-51	772F/48-50-56	790F/51-52-57
-10 808	726F/43-46-52	778F/49-51-56	797F/51-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2440 M LONG WITH 200 M OF CLEARWAY AND 100 M OF STOPWAY
 RUNWAY SLOPES ARE -0.08 PERCENT FOR TODA AND -0.08 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

19 157 3285 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 56 FT

RUNWAY 08

ZBDH

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	BEIDAHE JICHANG BDH/NORTH CHINA
737-800		CFM56-7B26			DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10	0	10	
61A	670	624F/35-36-41	665F/41-41-45	679F/42-42-45	675**43-44-47
58A	686	636F/36-37-42	677F/42-42-46	692F/43-43-47	689**44-44-48
55A	702	647F/37-38-44	689F/43-43-47	704F/45-45-49	703**45-45-49
52	720	660F/38-40-45	703F/44-44-49	718F/46-46-50	
49	739	673F/39-41-46	717F/45-46-50	733F/47-47-52	
46	760	687F/40-42-48	732F/46-47-52	748F/47-49-53	
43	779	700F/41-43-49	747F/47-48-53	763F/48-50-55	
40	800	713F/41-44-51	762F/47-49-55	778F/49-51-56	
37	820	726F/42-45-52	776F/48-51-56	794F/50-52-57	
34	840	737F/43-46-53	789F/49-52-57	807F/49-52-58	
31	859	750F/43-47-54	802F/48-51-58	820F/49-51-58	
28	862	756F/44-48-55	809F/48-51-58	828F/49-51-58	
25	862	760F/44-48-55	813F/48-51-58	832F/49-51-58	
22	862	763F/44-48-56	817F/48-51-58	836F/49-51-58	
19	862	767F/45-49-56	821F/48-51-58	840F/49-51-58	
16	862	771F/45-49-56	825F/48-51-58	844F/49-51-58	
13	862	774F/46-50-57	829F/48-51-58	849F/49-51-58	
10	862	778F/46-50-57	833F/48-51-58	853F/49-51-58	
5	862	784F/47-51-57	841F/48-51-58	860F/49-51-58	
0	862	791F/47-51-58	848F/48-51-58	862F/49-51-58	
-5	862	797F/47-51-58	855F/48-51-58	862F/49-51-58	
-10	862	804F/47-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.07 PERCENT FOR TODA AND -0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 08 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 56 FT

RUNWAY 26 ZBDH

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	BEIDAIHE JICHANG BDH/NORTH CHINA DATED 10-JUN-2019
737-800 CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 670	622F/35-36-41	663F/41-41-45	677F/42-42-45	674**43-43-47
58A 686	634F/36-37-42	675F/42-42-46	690F/43-43-47	688**44-44-48
55A 702	645F/37-38-43	687F/43-43-47	702F/45-45-49	
52 720	658F/38-39-45	701F/44-44-49	716F/46-46-50	
49 739	671F/39-41-46	715F/45-45-50	730F/46-47-51	
46 760	685F/40-42-48	730F/46-47-52	745F/47-48-53	
43 779	698F/41-43-49	745F/46-48-53	760F/48-50-54	
40 800	711F/41-44-50	760F/47-49-55	776F/49-51-56	
37 820	724F/42-45-52	774F/48-50-56	792F/50-52-57	
34 840	735F/43-46-53	787F/49-51-57	805F/50-52-58	
31 859	748F/43-47-54	800F/49-51-58	818F/49-51-58	
28 862	754F/44-47-55	807F/48-51-58	826F/49-51-58	
25 862	758F/44-48-55	811F/48-51-58	830F/49-51-58	
22 862	762F/44-48-56	815F/48-51-58	834F/49-51-58	
19 862	765F/45-49-56	819F/48-51-58	838F/49-51-58	
16 862	769F/45-49-56	823F/48-51-58	842F/49-51-58	
13 862	772F/46-49-56	827F/48-51-58	846F/49-51-58	
10 862	776F/46-50-57	831F/48-51-58	851F/49-51-58	
5 862	782F/47-50-57	838F/49-51-58	858F/49-51-58	
0 862	789F/47-51-58	845F/49-51-58	862F/49-51-58	
-5 862	795F/48-51-58	852F/49-51-58	862F/49-51-58	
-10 862	802F/48-51-58	860F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.07 PERCENT FOR TODA AND 0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

26 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3556 FT

RUNWAY 08

ZBHH

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				BAITAJICHANG HHHT/NORTH CHINA DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
61A	598	658F/34-34-38 624**45-46-49	699F/34-34-38 628**48-49-52	712F/34-34-38 628**48-49-52
58A	614	670F/36-36-39 639**46-47-50	713F/36-36-39 645**49-51-54	726F/36-36-39 645**50-51-54
55A	629	682F/37-38-41 653**47-48-51	725F/38-38-41 661**51-52-55	739F/38-38-41 661**51-52-55
52A	645	694F/39-39-43 668**47-49-52	737F/39-39-43 678**53-54-57	751F/39-39-43 678**53-54-57
49A	660	705F/40-41-44 682**48-50-53	749F/41-41-44 694**54-56-59	764F/41-41-44 694**54-56-59
46	677	717F/42-42-46 697**49-51-54	761F/42-42-46 712**56-58-61	776F/42-42-46 712**56-58-61
43	694	731F/43-44-48 710**48-50-54	774F/44-44-48 730**57-59-62	790F/44-44-48 731**58-60-63
40	712	744F/45-46-50 722**48-49-53	804F/45-46-50 747**58-60-63	750**59-61-65 750**59-61-65
37	731	740B/46-47-52 733**47-48-52	799F/47-47-52 761**57-59-62	816F/47-47-52 768**60-63-66
34	749	740B/46-48-53	813F/48-49-53 773**56-58-62	828F/48-49-53 782**60-62-65
31	763	745B/46-48-53	825F/49-50-55 784**56-58-62	840F/49-50-55 790**58-60-64
28	776	750B/47-49-54	835F/50-51-56 790**54-56-60	851F/50-51-56 790**54-56-60
25	785	755B/47-49-54	844F/51-52-57 790**52-54-58	859F/51-52-57 790**52-54-58
22	791	759B/47-49-55	850F/51-53-57	862F/51-53-57
19	791	763B/47-50-55	854F/51-53-57	862F/51-53-57
16	792	766B/48-50-55	858F/51-53-57	862F/51-53-57
13	792	770B/48-51-56	862F/51-53-57	862F/51-53-57
10	793	774B/49-51-56	862F/51-53-57	862F/51-53-57
5	793	781B/49-52-56	862F/51-53-57	862F/52-53-57
0	794	787B/50-52-57	862F/51-53-57	862F/52-53-57
-5	795	799B/51-53-57	862F/51-53-57	862F/52-53-57
-10	795	813B/51-53-57	862F/51-53-57	862F/52-53-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 400 M OF CLEARWAY AND 75 M OF STOPWAY
 RUNWAY SLOPES ARE 0.38 PERCENT FOR TODA AND 0.38 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 08 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3556 FT

RUNWAY 26

ZBHH

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

BAITAJICHANG

HHHT/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10	
61A	598	590*/32-33-37	603*/34-34-38	607*/34-34-38		
		612**44-47-49	627**47-49-51	628**47-49-52		
58A	614	605*/34-35-38	618*/36-36-39	623*/36-36-39		
		627**45-48-51	643**48-50-53	645**49-51-54		
55A	629	620*/35-37-40	634*/37-38-41	638*/37-38-41		
		643**47-50-53	659**50-52-55	661**50-52-55		
52A	645	635*/37-38-42	646*/39-39-43	647*/39-39-43		
		658**48-52-55	674**51-54-57	678**52-54-57		
49A	660	650*/38-40-43	662*/40-41-44	664*/40-41-44		
		673**50-53-57	690**53-55-59	694**53-56-59		
46	677	666*/39-41-45	680*/41-42-46	681*/42-42-46		
		687**49-53-56	707**54-57-60	712**55-58-61		
43	694	683*/41-43-47	698*/43-44-48	699*/43-44-48		
		700**48-51-55	725**56-59-62	731**57-60-63		
40	712	699*/42-44-49	715*/44-46-50	717*/45-46-50		
		712**47-50-54	742**57-60-64	749**58-61-65		
37	731	717*/43-46-50	733*/46-47-52	735*/46-47-52		
		725**46-49-53	757**56-59-63	767**59-62-66		
34	749	733*/45-47-52	749*/47-49-53	753*/47-49-53		
		736**45-48-53	770**55-58-62	781**58-61-65		
31	763	743B/45-48-53	763*/48-50-55	767*/48-50-55		
			780**54-57-61	790**57-60-64		
28	776	747B/45-48-53	776*/49-51-56	780*/49-51-56		
			790**54-57-61	790**53-56-60		
25	785	752B/45-49-54	785*/50-52-57	791*/50-52-57		
			790**51-54-58	790**51-54-58		
22	791	756B/46-49-54	791*/50-53-57	796*/50-53-57		
19	791	760B/46-49-55	792*/50-53-57	797*/50-53-57		
16	792	763B/46-50-55	792*/50-53-57	798*/50-53-57		
13	792	767B/47-50-55	793*/50-53-57	799*/50-53-57		
10	793	771B/47-51-56	794*/50-53-57	799*/50-53-57		
5	793	777*/48-51-56	795*/50-53-57	800*/50-53-57		
0	794	778*/48-51-56	796*/50-53-57	801*/50-53-57		
-5	795	779*/48-51-56	797*/50-53-57	802*/51-53-57		
-10	795	786**50-54-58				
		780*/48-52-56	797*/50-53-57	803*/51-53-57		
		789**51-55-60				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF

75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 820 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 200 M OF CLEARWAY AND 75 M OF STOPWAY

RUNWAY SLOPES ARE -0.38 PERCENT FOR TODA AND -0.38 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

26	230	5443	0	515	12329	0	538	12295	0
	453	8322	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2165 FT

RUNWAY 09

ZBLA

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				HULUNBEIERJICHANG HLE/NORTH CHINA
				DATED 10-JUN-2019
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10	0
61A	625	615F/35-36-40	658F/37-37-41	673F/37-37-41
			640**43-44-47	647**45-46-49
58A	641	626F/36-37-41	669F/39-39-42	685F/39-39-42
			655**43-44-47	661**46-47-50
55A	657	638F/37-38-42	681F/40-41-44	697F/40-41-44
			669**44-45-48	676**47-48-51
52A	673	649F/38-39-43	694F/42-42-46	708F/42-42-46
			683**45-46-49	690**48-49-52
49	690	660F/39-40-45	706F/43-44-47	721F/43-44-47
			699**46-47-50	705**48-49-53
46	709	673F/40-41-46	720F/44-45-49	735F/45-45-49
			714**46-47-51	722**49-50-54
43	727	686F/41-43-48	733F/46-47-51	748F/46-47-51
			730**47-48-52	738**49-51-55
40	746	699F/41-44-49	746F/47-49-53	762F/48-49-53
				754**50-51-55
37	766	712F/42-45-50	759F/48-50-54	776F/49-50-55
				771**50-52-56
34	784	723F/43-46-51	772F/49-51-55	789F/50-52-56
				786**51-53-57
31	801	735F/43-47-53	785F/49-52-57	802F/50-52-57
28	815	745F/44-47-54	795F/50-52-57	812F/50-52-57
25	825	752F/44-48-54	803F/49-52-57	820F/50-52-57
22	825	756F/45-48-55	807F/49-52-57	824F/50-52-57
19	826	759F/45-49-55	810F/49-52-57	828F/50-52-57
16	826	763F/46-49-55	814F/49-52-57	832F/50-52-57
13	827	766F/46-49-55	818F/49-52-57	836F/50-52-57
10	827	770F/46-50-56	822F/49-52-57	840F/50-52-57
5	828	776F/47-50-56	829F/49-52-57	847F/50-52-57
0	829	782F/48-51-57	836F/50-52-57	854F/50-52-57
-5	829	789F/48-52-57	843F/50-52-57	861F/50-52-57
-10	830	795F/49-52-57	850F/50-52-57	862F/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 1100 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.14 PERCENT FOR TODA AND -0.14 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 09 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2165 FT

RUNWAY 27

ZBLA

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			HULUNBEIERJICHANG HLE/NORTH CHINA
737-800		CFM56-7B26			DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10	0	10	
61A	625	600*/33-34-38	629*/37-37-41	638*/37-37-41	
			629**38-38-42	636**42-42-45	
58A	641	612*/34-35-39	642*/39-39-42	652*/39-39-42	
				651**42-43-46	
55A	657	625*/36-37-41	656*/40-40-44	666*/41-41-44	
				665**43-43-47	
52A	673	637*/37-38-42	670*/41-42-45	680*/42-42-46	
				679**44-44-48	
49	690	651*/38-39-44	684*/43-43-47	695*/44-44-47	
				694**45-45-49	
46	709	665*/39-40-45	699*/44-44-48	711*/45-45-49	
				710**46-46-50	
43	727	680*/40-42-47	715*/45-46-50	726*/46-47-51	
40	746	695*/41-43-49	731*/46-47-52	743*/47-48-53	
37	766	708F/42-44-50	746*/47-48-53	759*/49-50-54	
34	784	720F/43-45-51	761*/48-50-55	774*/50-51-56	
31	801	731F/43-46-52	776*/49-51-56	789*/51-52-57	
28	815	741F/44-47-53	788*/50-52-57	799*/50-52-57	
25	825	748F/44-48-54	795*/50-52-57	805*/50-52-57	
22	825	752F/45-48-54	797*/50-52-57	807*/50-52-57	
19	826	755F/45-48-55	799*/50-52-57	809*/50-52-57	
16	826	759F/46-49-55	801*/50-52-57	811*/50-52-57	
13	827	762F/46-49-55	803*/50-52-57	813*/50-52-57	
10	827	766F/46-49-55	805*/50-52-57	815*/50-52-57	
5	828	772F/47-50-56	809*/50-52-57	818*/50-52-57	
0	829	778F/48-51-56	812*/50-52-57	822*/50-52-57	
-5	829	783*/48-51-57	815*/50-52-57	825*/50-52-57	
-10	830	787*/49-52-57	819*/50-52-57	829*/50-52-57	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 300 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.14 PERCENT FOR TODA AND 0.14 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

27 23 399 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2231 FT

RUNWAY 12

ZBMZ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

XIJIAOJICHANG

MZL/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	C 100KG	-10	0	10
61A	624	582*/31-32-36	598*/34-34-38	603*/34-34-38	
		593**36-37-41	616**43-45-48	624**46-47-51	
58A	640	597*/33-33-38	613*/35-35-39	618*/36-36-40	
		606**37-38-42	630**44-46-49	638**47-48-52	
55A	656	612*/34-35-40	628*/37-37-41	633*/38-38-42	
		619**37-39-43	645**45-46-50	653**47-49-52	
52A	672	626*/35-37-41	642*/38-38-43	648*/39-39-43	
		632**38-40-44	659**46-47-51	667**48-50-53	
49	689	642*/37-38-43	658*/40-40-45	664*/41-41-45	
		646**39-40-45	673**46-48-52	682**49-50-54	
46	707	659*/38-40-45	675*/41-42-46	681*/42-42-47	
		661**39-41-46	689**47-49-53	699**50-51-55	
43	726	675*/40-41-47	692*/43-43-48	698*/44-44-49	
		676**40-42-47	705**48-49-54	714**50-52-56	
40	745	691F/41-43-48	709*/44-45-50	715*/45-45-50	
			720**48-50-55	730**51-52-57	
37	764	703F/42-44-49	726*/45-46-51	732*/46-47-52	
			736**49-51-56	746**51-53-58	
34	782	715F/43-45-51	742*/46-48-53	748*/47-48-53	
			751**49-51-57	760**52-54-59	
31	799	727F/43-46-52	758*/47-49-55	764*/48-50-55	
			765**50-52-57	775**52-55-60	
28	813	736F/44-46-53	770*/48-50-56	777*/49-51-56	
			777**50-53-58	787**53-55-60	
25	823	743F/44-47-54	780*/49-51-57	786*/50-52-57	
			786**51-53-59	790**51-53-59	
22	824	747F/45-47-54	781*/49-51-57	787*/50-52-57	
			788**51-54-59	790**51-53-58	
19	824	750F/45-48-54	781*/49-51-57	788*/50-52-57	
			790**52-55-60	790**51-53-58	
16	825	754F/45-48-54	782*/49-51-57	788*/50-52-57	
			790**52-54-60	790**51-53-58	
13	825	757F/46-49-55	782*/49-51-57	789*/50-52-57	
			790**52-54-60	790**51-52-58	
10	826	761F/46-49-55	783*/49-51-57	790*/50-52-57	
			790**52-54-59		
5	826	764*/47-49-55	784*/50-51-57	791*/50-52-57	
		765**47-50-56	790**52-54-59		
0	827	765*/47-49-55	785*/50-51-57	792*/51-52-57	
		769**48-51-57	790**51-53-59		
-5	828	766*/47-49-55	786*/50-52-57	793*/51-52-57	
		772**49-52-58	790**51-53-59		
-10	828	766*/47-49-56	787*/50-52-57	793*/51-52-57	
		775**50-53-59	790**51-53-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 880 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 800 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.37 PERCENT FOR TODA AND 0.37 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

12 577 8215 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2231 FT

RUNWAY 30

ZBMZ

 XIJIAOJICHANG
 MZL/NORTH CHINA
 DATED 10-JUN-2019

737-800 CFM56-7B26

 A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	624	617F/35-36-40	658F/37-37-40	674F/37-37-40
			641**43-44-47	647**45-47-50
58A	640	628F/36-37-41	671F/38-39-42	686F/39-39-42
			655**44-45-48	661**46-48-51
55A	656	639F/37-38-42	684F/40-40-44	698F/40-40-44
			669**44-46-49	676**47-48-52
52A	672	650F/38-39-44	696F/41-42-46	710F/41-42-46
			684**45-46-50	690**48-49-53
49	689	662F/39-41-45	708F/43-43-47	723F/43-43-47
			699**46-47-51	705**48-50-53
46	707	675F/40-42-46	722F/44-45-49	737F/44-45-49
			715**46-48-52	722**49-51-54
43	726	688F/40-43-48	735F/45-47-51	751F/46-47-51
			730**47-48-52	738**49-51-55
40	745	701F/41-44-49	748F/47-49-53	764F/47-49-53
			746**47-49-53	755**50-52-56
37	764	713F/42-45-50	761F/48-50-54	778F/48-50-55
				771**50-53-57
34	782	725F/43-46-52	774F/49-51-56	791F/50-52-56
				786**51-53-58
31	799	737F/43-47-53	786F/49-52-57	804F/50-52-57
28	813	746F/44-48-54	796F/49-52-57	814F/50-52-57
25	823	754F/44-48-54	805F/49-52-57	822F/49-52-57
22	824	757F/45-49-55	808F/49-52-57	826F/49-52-57
19	824	761F/45-49-55	812F/49-52-57	830F/49-52-57
16	825	764F/46-49-55	816F/49-52-57	835F/49-52-57
13	825	768F/46-50-56	820F/49-52-57	839F/49-52-57
10	826	772F/46-50-56	824F/49-52-57	843F/50-52-57
5	826	778F/47-51-56	831F/49-52-57	850F/50-52-57
0	827	784F/48-51-57	838F/49-52-57	857F/50-52-57
-5	828	790F/48-52-57	845F/49-52-57	862F/50-52-57
-10	828	797F/48-52-57	852F/49-52-57	862F/50-52-57

 MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

 RUNWAY IS 2800 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.37 PERCENT FOR TODA AND -0.37 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 30 NONE

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ELEVATION 3323 FT

RUNWAY 13

ZBOW

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	DONGHEJICHANG BT/NORTH CHINA DATED 10-JUN-2019
OAT	CLIMB	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG		-10	0	10
61A	603	530*/24-25-30	552*/28-28-33	559*/29-29-33	
		532**28-31-36	555**32-34-38	563**34-36-40	
58A	618	542*/25-27-32	565*/29-30-34	572*/30-31-35	
		544**30-32-37	568**34-36-40	576**35-37-41	
55A	634	555*/26-28-33	578*/30-31-36	585*/32-32-37	
		556**31-34-39	581**36-38-42	589**37-38-43	
52A	649	567*/28-29-35	591*/32-32-37	598*/33-33-38	
		568**31-34-40	593**37-39-43	602**37-39-44	
49A	665	579*/29-31-36	603*/33-34-39	611*/34-35-40	
			606**38-40-45	615**39-41-46	
46	682	593*/30-32-38	618*/34-35-41	626*/35-36-41	
			620**39-41-46	629**40-42-47	
43	700	607*/31-34-40	632*/35-37-42	641*/37-38-43	
			634**40-43-48	643**42-44-49	
40	718	621*/32-35-41	647*/37-38-44	656*/38-39-45	
			649**42-44-50	658**43-46-51	
37	737	635*/34-36-43	662*/38-40-46	671*/39-41-46	
			664**43-46-51	674**44-47-52	
34	754	648*/35-38-44	676*/39-41-47	686*/41-42-48	
			678**44-47-52	688**46-48-54	
31	769	659*/36-39-46	688*/40-42-48	698*/42-43-49	
			690**44-48-53	700**47-49-55	
28	782	669*/37-40-47	699*/41-43-49	709*/42-44-50	
			701**45-48-54	711**47-50-56	
25	792	677*/37-40-48	707*/42-44-50	717*/43-45-51	
			709**45-48-54	719**47-50-56	
22	797	682*/38-41-48	712*/42-44-51	722*/43-45-51	
			714**45-48-54	724**47-50-56	
19	797	683*/38-41-48	714*/42-44-51	724*/44-45-52	
			715**45-48-54	726**47-50-56	
16	798	685*/38-41-48	715*/42-45-51	725*/44-46-52	
			717**46-49-55	728**48-51-57	
13	798	686*/38-41-48	717*/43-45-51	727*/44-46-52	
			719**46-49-55	729**48-51-57	
10	798	688*/38-42-49	718*/43-45-51	728*/44-46-52	
			720**47-50-56	731**49-52-58	
5	799	690*/39-42-49	721*/43-45-51	731*/44-46-52	
			723**47-51-57	734**50-53-59	
0	800	693*/39-42-49	723*/43-45-52	733*/45-46-52	
-5	800	696*/40-42-49	726**48-52-58	737**50-54-59	
-10	801	698*/40-43-49	728*/44-46-52	738*/45-47-53	
			732**50-53-59	743**51-54-60	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT
 LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

**=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.26 PERCENT FOR TODA AND -0.26 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 13 308 2993 0 190 1524 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3323 FT

RUNWAY 31 ZBOW

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	DONGHEJICHANG BT/NORTH CHINA			
737-800	CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE							
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)							
C 100KG	-10 0 10						
61A 603	532*/25-26-31 540**33-36-41	551*/28-28-33 560**37-39-43	557*/29-29-33 567**39-40-44				
58A 618	545*/26-27-32 552**34-37-41	564*/30-30-34 574**39-41-45	571*/30-30-35 581**40-42-46				
55A 634	558*/27-28-34 565**36-39-44	578*/31-31-36 587**40-42-47	584*/32-32-37 594**41-43-48				
52A 649	571*/29-30-35 577**37-41-46	591*/32-33-37 600**41-44-48	598*/33-33-38 608**43-45-49				
49A 665	584*/30-31-37 590**38-42-47	604*/33-34-39 613**43-45-50	611*/35-35-40 621**44-46-51				
46 682	598*/31-33-39 604**39-42-47	619*/35-35-41 628**44-47-52	626*/36-36-41 636**46-48-53				
43 700	612*/32-34-40 618**39-43-48	634*/36-37-42 643**46-49-54	641*/37-38-43 651**47-50-54				
40 718	627*/34-36-42 632**39-43-48	649*/38-39-44 658**47-50-55	657*/39-39-45 666**49-51-56				
37 737	642*/35-37-44 647**41-44-50	665*/39-40-46 674**49-52-57	673*/40-41-47 682**50-53-58				
34 754	656*/36-39-45 661**41-45-51	680*/40-41-47 688**49-52-58	687*/41-42-48 697**51-54-60				
31 769	668*/37-40-46 672**42-46-52	692*/41-42-49 700**49-53-58	700*/42-43-49 709**52-56-61				
28 782	678*/38-41-48 683**43-46-53	703*/42-43-50 711**50-53-59	711*/43-44-50 720**52-56-61				
25 792	686*/39-41-48 691**43-47-53	712*/43-44-51 720**50-54-60	720*/44-45-51 729**53-56-62				
22 797	691*/39-42-49 695**44-48-54	716*/43-45-51 724**51-55-60	724*/44-46-52 734**53-57-63				
19 797	692*/39-42-49 697**44-48-55	717*/43-45-51 726**52-56-61	725*/44-46-52 735**54-58-64				
16 798	693*/40-42-49 699**45-49-55	718*/43-45-51 727**52-56-62	727*/44-46-52 737**54-58-64				
13 798	694*/40-42-49 700**45-49-56	719*/43-45-51 729**53-57-63	728*/45-46-52 738**55-58-64				
10 798	695*/40-42-49 701**46-50-56	720*/44-45-51 730**53-57-63	729*/45-46-52 740**55-59-64				
5 799	697*/40-42-49 703**47-51-57	722*/44-45-52 732**54-58-63	730*/45-46-52 742**55-59-64				
0 800	699*/40-43-50 705**48-52-59	724*/44-45-52 735**54-58-64	732*/45-46-52 744**55-59-64				
-5 800	700*/41-43-50 708**49-54-60	725*/44-46-52 737**54-58-64	734*/45-47-53 747**56-59-65				
-10 801	702*/41-43-50 710**50-55-61	727*/45-46-52 739**55-58-64	735*/46-47-53 749**56-60-65				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 860 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.26 PERCENT FOR TODA AND 0.26 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 31 492 6710 0 295 2852 0 607 14015 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 233 FT

RUNWAY 15

ZBSJ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				ZHENGDINGJICHANG SJZ/NORTH CHINA
				DATED 10-JUN-2019
737-800	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10 0 10	
61A	666	677*/40-41-45 689**49-51-54	694*/41-41-45 700**54-56-60	699*/41-41-45 700**54-56-60
58A	682	693*/42-43-47 703**49-52-55	710*/43-43-47 717**56-58-61	716*/43-43-47 717**56-58-61
55A	699	709*/43-44-48 718**50-52-56	726*/44-44-48 735**57-60-63	732*/44-44-48 735**57-60-63
52	716	726*/44-46-50 734**50-53-57	743*/45-46-50 753**58-61-65	749*/46-46-50 754**59-62-65
49	735	743*/46-48-52 750**51-53-57	762*/47-48-52 771**59-62-66	768*/47-48-52 774**61-64-67
46	755	762*/47-49-54 763**50-52-56	781*/48-49-54 790**60-63-66	787*/48-49-54 790**60-63-67
43	775	775B/49-51-56	800*/49-51-56 790**54-57-61	806*/50-51-56 790**54-57-61
40	795	780B/48-51-56	819*/50-52-57	825*/51-52-57
37	816	786B/48-52-57	836*/50-52-57	843*/50-52-57
34	835	792B/48-52-57	851*/49-52-57	858*/49-52-57
31	854	803B/47-51-58	862F/49-51-58	862F/49-51-58
28	862	812B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	853B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	861B/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 240 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.10 PERCENT FOR TODA AND -0.10 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 15 89 1929 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 233 FT

RUNWAY 33 ZBSJ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF ZHENGDING JICHTANG
 SJZ/NORTH CHINA
 737-800 CFM56-7B26 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	666	711F/41-41-45	756F/41-41-45	772F/41-41-45	
		688**49-50-53	700**54-56-60	700**55-56-60	
58A	682	725F/42-43-47	768F/43-43-47	785F/43-43-47	
		703**49-51-54	717**56-58-61	717**56-58-61	
55A	699	737F/43-44-48	781F/44-44-48	797F/44-44-48	
		717**50-52-55	735**57-60-63	735**58-60-63	
52	716	751F/45-46-50	793F/46-46-50	810F/46-46-50	
		733**50-52-56	752**58-61-64	754**59-62-65	
49	735	765F/46-48-52	808F/47-48-52	824F/47-48-52	
		750**51-53-57	770**59-61-65	774**61-64-67	
46	755	778F/48-49-54	824F/48-49-54	839F/49-49-54	
		763**50-52-56	788**59-62-66	790**60-63-67	
43	775	776B/49-51-56	840F/50-51-56	856F/50-51-56	
			790**54-57-61	790**55-57-61	
40	795	781B/49-52-56	855F/51-52-57	862F/51-52-57	
37	816	787B/49-52-57	862F/50-52-57	862F/50-52-57	
34	835	794B/48-52-57	862F/49-52-57	862F/50-52-57	
31	854	804B/48-51-58	862F/49-51-58	862F/49-51-58	
28	862	814B/47-51-58	862F/49-51-58	862F/49-51-58	
25	862	822B/47-51-58	862F/49-51-58	862F/49-51-58	
22	862	830B/47-51-58	862F/49-51-58	862F/49-51-58	
19	862	838B/48-51-58	862F/49-51-58	862F/49-51-58	
16	862	846B/48-51-58	862F/49-51-58	862F/49-51-58	
13	862	855B/48-51-58	862F/49-51-58	862F/49-51-58	
10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 240 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.10 PERCENT FOR TODA AND 0.10 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

33 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 49 FT

RUNWAY 10 ZBSN

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				SANNVHEJICHANG TS/NORTH CHINA
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	670	620*/35-36-41 626**37-39-43	637*/38-38-42 652**45-46-50	643*/39-39-43 661**47-49-53
58A	686	635*/36-37-42 639**38-40-44	652*/39-39-44 667**46-47-51	658*/40-40-44 676**48-50-54
55A	703	650*/37-39-44 653**39-40-45	668*/41-41-46 681**46-48-52	674*/42-42-46 690**49-50-54
52	721	666*/39-40-46 667**39-41-46	684*/42-42-47 696**47-49-53	691*/43-43-48 706**50-51-55
49	740	683F/40-42-47	702*/43-44-49 713**48-49-54	708*/44-45-50 723**50-52-56
46	760	697F/41-43-49	720*/45-46-51 730**48-50-55	727*/46-46-51 740**51-53-57
43	780	710F/42-44-50	739*/46-47-53 747**49-51-56	745*/47-48-53 757**52-54-59
40	800	723F/43-45-52	757*/47-49-54 764**50-52-57	763*/48-50-55 774**52-55-60
37	820	736F/44-46-53	775*/48-50-56 780**50-53-58	782*/49-51-57 790**52-55-60
34	840	748F/44-47-54	792*/49-52-58	799*/50-52-58
31	860	761F/45-48-55	809*/49-51-58	816*/49-51-58
28	862	768F/45-49-56	816*/49-51-58	823*/49-51-58
25	862	771F/46-49-56	817*/49-51-58	824*/49-51-58
22	862	775F/46-50-57	818*/49-51-58	826*/49-51-58
19	862	779F/46-50-57	820*/49-51-58	827*/49-51-58
16	862	782F/47-50-57	820*/49-51-58	828*/49-51-58
13	862	786F/47-51-58	821*/49-51-58	829*/49-51-58
10	862	790F/48-51-58	822*/49-51-58	829*/49-51-58
5	862	796F/48-51-58	824*/49-51-58	831*/49-51-58
0	862	803F/48-51-58	825*/49-51-58	832*/49-51-58
-5	862	804*/48-51-58	826*/49-51-58	833*/49-51-58
-10	862	805*/48-51-58	827*/49-51-58	834*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 730 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2700 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.20 PERCENT FOR TODA AND 0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 10 161 2486 0 285 4105 0 492 6660 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 49 FT

RUNWAY 28 ZBSN

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	SANNHEJICHANG TS/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 670	621*/34-36-41 639*/38-38-42 645*/39-39-43 628**38-40-45 655**46-48-52 663**48-50-54		
58A 686	636*/36-37-42 654*/39-40-44 660*/40-40-45 642**39-41-45 669**46-48-52 678**49-51-55		
55A 703	651*/37-39-44 669*/40-41-46 675*/41-42-46 655**39-41-46 684**47-49-53 693**50-52-56		
52 721	667*/39-40-46 686*/42-43-47 692*/43-43-48 670**40-42-47 699**48-50-54 709**50-52-57		
49 740	684*/40-42-47 703*/43-44-49 710*/44-45-50 686**41-43-48 716**48-51-55 726**51-53-58		
46 760	702*/41-44-49 722*/44-46-51 729*/45-47-51 733**49-51-56 743**52-54-59		
43 780	716F/42-45-51 740*/46-47-53 747*/47-48-53 749**50-52-57 760**52-55-60		
40 800	729F/43-46-52 758*/47-49-54 765*/48-50-55 766**50-53-58 777**53-56-60		
37 820	742F/44-47-53 777*/48-51-56 784*/49-51-57 783**51-54-59 790**51-54-59		
34 840	754F/44-48-55 794*/49-52-58 801*/49-52-58		
31 860	766F/45-49-56 811*/48-51-58 818*/49-51-58		
28 862	773F/45-49-56 817*/48-51-58 825*/48-51-58		
25 862	777F/46-50-57 819*/48-51-58 826*/48-51-58		
22 862	781F/46-50-57 820*/48-51-58 827*/48-51-58		
19 862	784F/46-51-57 821*/48-51-58 828*/48-51-58		
16 862	788F/47-51-58 822*/48-51-58 829*/48-51-58		
13 862	792F/47-51-58 823*/48-51-58 830*/48-51-58		
10 862	796F/47-51-58 824*/48-51-58 831*/48-51-58		
5 862	802F/47-51-58 825*/48-51-58 833*/49-51-58		
0 862	805*/47-51-58 827*/48-51-58 834*/49-51-58		
-5 862	806*/47-51-58 828*/48-51-58 835*/49-51-58		
-10 862	807*/47-51-58 829*/48-51-58 836*/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 700 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2700 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 28 285 4113 0 492 6660 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 16L ZBTJ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				BINHAI JICHANG TJ/NORTH CHINA DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10
737-800	CFM56-7B26					
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10
61A	671	606*/33-34-39 624*/36-36-41 630*/37-37-42 624**43-47-51 643**47-49-53 650**48-50-54				
58A	687	620*/34-35-41 639*/37-38-43 645*/38-38-43 638**45-48-53 658**48-51-55 665**49-52-56				
55A	703	635*/35-37-42 653*/39-39-44 660*/40-40-45 653**46-50-55 674**50-52-57 680**51-53-57				
52	721	651*/37-39-44 670*/40-41-46 676*/41-41-46 669**48-52-56 690**51-54-59 697**52-55-59				
49	740	668*/38-40-46 687*/41-42-48 694*/42-43-48 686**49-53-58 708**52-56-60 715**54-57-61				
46	761	685*/40-42-48 705*/43-44-49 712*/44-45-50 704**50-55-60 726**54-58-62 734**55-58-63				
43	781	703*/41-43-50 723*/44-46-51 730*/45-46-52 721**52-57-62 744**55-59-64 752**56-60-65				
40	801	720*/42-45-51 740*/45-47-53 747*/46-48-54 738**53-58-64 762**57-61-66 770**58-62-67				
37	821	737*/43-46-53 758*/46-49-55 765*/47-49-55 754**53-58-64 780**58-63-68 788**59-63-69				
34	841	753*/44-48-54 775*/48-50-56 783*/49-51-57 768**52-57-63 790**54-58-64 790**51-54-60				
31	861	771*/45-49-56 793*/48-51-58 800*/49-51-58 782**50-56-62				
28	862	777*/46-50-57 799*/48-51-58 807*/49-51-58 788**51-56-62				
25	862	778*/46-50-57 801*/48-51-58 808*/49-51-58 790**51-56-63				
22	862	779*/46-50-57 802*/48-51-58 809*/49-51-58 790**51-56-62				
19	862	780*/46-50-57 802*/48-51-58 810*/49-51-58 790**50-55-62				
16	862	781*/46-50-57 803*/48-51-58 811*/49-51-58 790**50-55-61				
13	862	782*/46-50-57 804*/48-51-58 812*/49-51-58 790**50-54-61				
10	862	783*/47-50-57 805*/48-51-58 812*/49-51-58 790**49-54-61				
5	862	784*/47-50-57 806*/48-51-58 814*/49-51-58 790**49-53-60				
0	862	785*/47-51-58 808*/48-51-58 815*/49-51-58 790**49-53-59				
-5	862	786*/47-51-58 809*/49-51-58 816*/49-51-58 790**48-52-59				
-10	862	787*/47-51-58 809*/49-51-58 817*/49-51-58 790**48-52-59				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 920 FT
 LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 16L 663 7350 0 663 7460 0 436 7810 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 16R ZBTJ

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	BINHAI JICHANG TJ/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 671	693*/41-42-45 699**51-53-57	712*/42-42-45 705**55-57-60	718*/42-42-45 705**55-57-60
58A 687	709*/42-43-47 714**52-54-58	728*/43-43-47 722**56-59-62	734*/43-43-47 722**56-59-62
55A 703	725*/44-45-49 730**53-55-59	744*/44-45-49 740**58-60-64	751*/45-45-49 740**58-60-64
52 721	741*/45-46-50 742**52-54-58	762*/46-46-50 759**59-62-66	769*/46-46-50 759**60-62-66
49 740	759*/46-48-52 755**51-53-57	780*/47-48-52 779**61-64-68	787*/47-48-52 779**61-64-68
46 761	777*/48-50-54 767**50-52-56	799*/49-50-54 790**58-61-65	806*/49-50-54 790**58-61-65
43 781	779B/49-51-56	818*/50-52-56 790**53-55-59	825*/50-52-56 790**53-55-59
40 801	784B/49-52-57	835*/50-52-57	843*/51-52-57
37 821	790B/49-52-57	850*/50-52-57	858*/50-52-57
34 841	800B/48-52-58	862F/49-52-58	862F/49-52-58
31 861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28 862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25 862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22 862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19 862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16 862	852B/47-51-58	862F/48-51-58	862F/49-51-58
13 862	861B/47-51-58	862F/48-51-58	862F/49-51-58
10 862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5 862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0 -5	862F/47-51-58 862F/47-51-58	862F/48-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58
-10 862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
16R 33 670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 16R/A10 ZBTJ

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	BINHAI JICHANG TJ/NORTH CHINA
737-800		CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		DATED 10-JUN-2019
OAT	CLIMB	100KG	-10	0	10	
61A	671	678*/41-42-45	699*/42-42-45	705*/42-42-45		
		679**44-45-48	702**54-55-59	705**55-57-60		
58A	687	693*/42-43-47	715*/43-43-47	721*/43-43-47		
		693**44-46-49	718**54-56-60	722**56-59-62		
55A	703	707*/44-45-49	730*/44-45-49	737*/45-45-49		
		708**46-47-51	734**55-57-61	740**58-60-64		
52	721	724*/45-46-50	747*/46-46-50	754*/46-46-50		
		724**46-48-52	751**56-58-61	758**59-62-65		
49	740	740*/46-48-52	765*/47-48-52	772*/47-48-52		
			769**56-59-63	776**60-62-66		
46	761	758*/48-50-54	783*/49-50-54	791*/49-50-54		
			787**57-60-64	790**58-61-65		
43	781	775*/49-51-56	801*/50-52-56	809*/50-52-56		
			790**53-55-59	790**53-55-59		
40	801	784B/49-52-57	817*/50-52-57	826*/51-52-57		
37	821	790B/49-52-57	831*/50-52-57	840*/50-52-57		
34	841	800B/48-52-58	844*/49-52-58	853*/49-52-58		
31	861	811B/47-51-58	857*/48-51-58	862F/49-51-58		
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58		
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58		
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58		
19	862	840*/47-51-58	862F/48-51-58	862F/49-51-58		
16	862	842*/47-51-58	862F/48-51-58	862F/49-51-58		
13	862	844*/47-51-58	862F/48-51-58	862F/49-51-58		
10	862	847*/47-51-58	862F/48-51-58	862F/49-51-58		
5	862	850*/47-51-58	862F/48-51-58	862F/49-51-58		
0	862	854*/47-51-58	862F/48-51-58	862F/49-51-58		
-5	862	857*/47-51-58	862F/49-51-58	862F/49-51-58		
-10	862	860*/47-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDALINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 16R/A10 33 670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 16R/B7 ZBTJ

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			BINHAI JICHANG TJ/NORTH CHINA	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			DATED 10-JUN-2019	
OAT	CLIMB	C 100KG	-10	0	10	
61A	671	678*/41-42-45	699*/42-42-45	705*/42-42-45		
		679**44-45-48	702**54-55-59	705**55-57-60		
58A	687	693*/42-43-47	715*/43-43-47	721*/43-43-47		
		693**44-46-49	718**54-56-60	722**56-59-62		
55A	703	707*/44-45-49	730*/44-45-49	737*/45-45-49		
		708**46-47-51	734**55-57-61	740**58-60-64		
52	721	724*/45-46-50	747*/46-46-50	754*/46-46-50		
		724**46-48-52	751**56-58-61	758**59-62-65		
49	740	740*/46-48-52	765*/47-48-52	772*/47-48-52		
			769**56-59-63	776**60-62-66		
46	761	758*/48-50-54	783*/49-50-54	791*/49-50-54		
			787**57-60-64	790**58-61-65		
43	781	775*/49-51-56	801*/50-52-56	809*/50-52-56		
			790**53-55-59	790**53-55-59		
40	801	784B/49-52-57	817*/50-52-57	826*/51-52-57		
37	821	790B/49-52-57	831*/50-52-57	840*/50-52-57		
34	841	800B/48-52-58	844*/49-52-58	853*/49-52-58		
31	861	811B/47-51-58	857*/48-51-58	862F/49-51-58		
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58		
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58		
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58		
19	862	840*/47-51-58	862F/48-51-58	862F/49-51-58		
16	862	842*/47-51-58	862F/48-51-58	862F/49-51-58		
13	862	844*/47-51-58	862F/48-51-58	862F/49-51-58		
10	862	847*/47-51-58	862F/48-51-58	862F/49-51-58		
5	862	850*/47-51-58	862F/48-51-58	862F/49-51-58		
0	862	854*/47-51-58	862F/48-51-58	862F/49-51-58		
-5	862	857*/47-51-58	862F/49-51-58	862F/49-51-58		
-10	862	860*/47-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 16R/B7 33 670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 34L ZBTJ

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	BINHAI JICHANG TJ/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 671	688*/41-42-45 694**49-51-54	707*/42-42-45 705**55-57-60	713*/42-42-45 705**55-57-60
58A 687	704*/42-43-47 709**50-52-55	723*/43-43-47 722**56-59-62	729*/43-43-47 722**56-59-62
55A 703	719*/44-45-49 724**50-53-56	739*/44-45-49 740**58-60-64	745*/45-45-49 740**58-60-64
52 721	736*/45-46-50 741**51-54-57	756*/46-46-50 759**59-62-66	763*/46-46-50 759**60-62-66
49 740	754*/46-48-52 755**51-53-57	774*/47-48-52 779**61-64-68	781*/47-48-52 779**61-64-68
46 761	772*/48-50-54 767**50-52-56	793*/49-50-54 790**58-61-65	801*/49-50-54 790**58-61-65
43 781	779B/49-51-56	812*/50-52-56 790**53-55-59	819*/50-52-56 790**53-55-59
40 801	784B/49-52-57	829*/50-52-57	837*/51-52-57
37 821	790B/49-52-57	844*/50-52-57	852*/50-52-57
34 841	800B/48-52-58	858*/49-52-58	862F/49-52-58
31 861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28 862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25 862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22 862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19 862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16 862	852B/47-51-58	862F/48-51-58	862F/49-51-58
13 862	861B/47-51-58	862F/48-51-58	862F/49-51-58
10 862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5 862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0 862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5 862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10 862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 34L 39 700 0 89 2270 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 34L/B2 ZBTJ

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			BINHAI JICHANG TJ/NORTH CHINA			
737-800 CFM56-7B26		DATED 10-JUN-2019						
OAT C	CLIMB 100KG	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
		-10	0	10				
61A	671	681*/41-42-45 683**45-47-50	701*/42-42-45 705**55-57-60	707*/42-42-45 705**55-57-60				
58A	687	696*/42-43-47 698**46-47-51	716*/43-43-47 722**56-59-62	723*/43-43-47 722**56-59-62				
55A	703	712*/44-45-49 713**47-48-52	732*/44-45-49 738**57-60-63	739*/45-45-49 740**58-60-64				
52	721	728*/45-46-50 729**47-49-53	749*/46-46-50 756**58-60-64	756*/46-46-50 759**60-62-66				
49	740	745*/46-48-52 747**49-51-55	767*/47-48-52 774**58-61-65	774*/47-48-52 779**61-64-68				
46	761	763*/48-50-54 764**50-53-57	786*/49-50-54 790**58-61-65	793*/49-50-54 790**58-61-65				
43	781	779B/49-51-56	804*/50-52-56 790**53-55-59	812*/50-52-56 790**53-55-59				
40	801	784B/49-52-57	821*/50-52-57	829*/51-52-57				
37	821	790B/49-52-57	835*/50-52-57	844*/50-52-57				
34	841	800B/48-52-58	849*/49-52-58	858*/49-52-58				
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58				
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58				
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58				
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58				
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58				
16	862	849*/47-51-58	862F/48-51-58	862F/49-51-58				
13	862	851*/47-51-58	862F/48-51-58	862F/49-51-58				
10	862	853*/47-51-58	862F/48-51-58	862F/49-51-58				
5	862	857*/47-51-58	862F/48-51-58	862F/49-51-58				
0	862	860*/47-51-58	862F/48-51-58	862F/49-51-58				
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58				
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 34L/B2 39 700 0 89 2270 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 34R ZBTJ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				BINHAI JICHANG TJ/NORTH CHINA
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	671	673*/41-42-45 681**45-46-50	689*/42-42-45 701**53-55-58	694*/42-42-45 705**55-57-60
58A	687	688*/42-43-47 696**46-47-51	705*/43-43-47 717**54-56-59	710*/43-43-47 722**56-59-62
55A	703	704*/44-45-49 710**46-48-52	722*/44-45-49 733**54-57-60	727*/45-45-49 738**57-60-63
52	721	722*/45-46-50 727**47-49-53	739*/46-46-50 750**55-57-61	745*/46-46-50 756**58-60-64
49	740	740*/46-48-52 743**48-50-54	758*/47-48-52 767**56-58-62	764*/47-48-52 773**59-61-65
46	761	759*/48-50-54 761**48-51-55	777*/49-50-54 785**56-59-63	783*/49-50-54 790**58-61-65
43	781	778F/49-51-56	797*/50-52-56 790**53-55-59	803*/50-52-56 790**53-55-59
40	801	784B/49-52-57	815*/50-52-57	821*/51-52-57
37	821	790B/49-52-57	832*/50-52-57	839*/50-52-57
34	841	800B/48-52-58	849*/49-52-58	856*/49-52-58
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	852B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	857F/47-51-58	862F/48-51-58	862F/49-51-58
10	862	860*/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 34R 138 2950 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 13 FT

RUNWAY 34R/W2 ZBTJ

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			BINHAI JICHANG TJ/NORTH CHINA	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			DATED 10-JUN-2019	
OAT	CLIMB	C 100KG	-10	0	10	
61A	671	669*/41-42-45	686*/42-42-45	691*/42-42-45		
		671**42-43-46	694**50-51-54	700**53-54-57		
58A	687	685*/42-43-47	702*/43-43-47	708*/43-43-47		
		686**42-44-47	709**51-52-55	716**53-55-58		
55A	703	700F/43-44-48	719*/44-45-49	724*/45-45-49		
			724**51-53-56	731**54-56-59		
52	721	714F/44-46-50	736*/46-46-50	742*/46-46-50		
			741**52-54-57	748**55-57-60		
49	740	728F/45-47-51	755*/47-48-52	760*/47-48-52		
			758**53-55-58	765**55-58-61		
46	761	744F/46-48-53	774*/49-50-54	780*/49-50-54		
			776**53-55-59	784**56-58-62		
43	781	758F/47-49-54	793*/50-52-56	799*/50-52-56		
			790**53-55-59	790**53-55-59		
40	801	772F/48-50-56	811*/50-52-57	818*/51-52-57		
37	821	786F/48-52-57	828*/50-52-57	835*/50-52-57		
34	841	798F/48-52-58	845*/49-52-58	852*/49-52-58		
31	861	811F/47-51-58	862*/48-51-58	862F/49-51-58		
28	862	818F/47-51-58	862F/48-51-58	862F/49-51-58		
25	862	822F/47-51-58	862F/48-51-58	862F/49-51-58		
22	862	825F/47-51-58	862F/48-51-58	862F/49-51-58		
19	862	829F/47-51-58	862F/48-51-58	862F/49-51-58		
16	862	833F/47-51-58	862F/48-51-58	862F/49-51-58		
13	862	837F/47-51-58	862F/48-51-58	862F/49-51-58		
10	862	841F/47-51-58	862F/48-51-58	862F/49-51-58		
5	862	848F/47-51-58	862F/48-51-58	862F/49-51-58		
0	862	855F/47-51-58	862F/48-51-58	862F/49-51-58		
-5	862	861*/47-51-58	862F/49-51-58	862F/49-51-58		
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3038 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

34R/W2 138 2950 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 604 FT

RUNWAY 02 ZBTL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF TONGLIAOJICHANG
 TL/NORTH CHINA
 737-800 CFM56-7B26 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	658	575F/29-30-36	614F/35-35-40	627F/37-37-41
58A	674	586F/30-31-37	625F/36-36-41	638F/38-38-42
55A	691	596F/31-32-38	636F/37-37-42	650F/39-39-44
52	708	606F/31-33-40	648F/38-38-44	662F/40-40-45
49	726	617F/32-34-41	661F/39-40-45	675F/41-41-47
46	746	629F/33-35-42	675F/40-41-47	689F/42-43-48
43	766	640F/34-36-44	688F/41-42-48	703F/43-44-49
40	786	652F/35-38-45	702F/42-43-50	717F/44-45-51
37	806	664F/36-39-46	716F/43-44-51	732F/45-46-52
34	825	675F/36-40-48	727F/43-45-52	744F/45-47-54
31	843	687F/37-40-49	739F/44-46-53	756F/46-48-55
28	857	695F/38-41-50	748F/44-47-54	765F/46-49-56
25	858	699F/38-42-50	751F/45-47-55	769F/47-49-56
22	858	702F/39-42-50	755F/45-48-55	773F/47-50-56
19	859	706F/39-42-51	759F/46-48-55	777F/48-50-57
16	860	709F/40-43-51	762F/46-48-55	781F/48-50-57
13	860	713F/40-43-51	766F/46-49-56	784F/49-51-57
10	861	716F/40-43-52	770F/47-49-56	788F/49-51-58
5	862	722F/41-44-52	776F/47-50-57	795F/49-51-58
0	862	728F/42-45-53	783F/48-51-57	802F/49-51-58
-5	862	734F/42-45-53	789F/49-51-58	809F/49-51-58
-10	862	740F/43-46-54	796F/49-51-58	816F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2300 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02 46 1150 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 604 FT

RUNWAY 20 ZBTL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF TONGLIAOJICHANG
 737-800 CFM56-7B26 TL/NORTH CHINA
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	658	575F/29-30-36	614F/35-35-40	627F/37-37-41
58A	674	586F/30-31-37	625F/36-36-41	638F/38-38-42
55A	691	596F/31-32-38	636F/37-37-42	650F/39-39-44
52	708	606F/31-33-40	648F/38-38-44	662F/40-40-45
49	726	617F/32-34-41	661F/39-40-45	675F/41-41-47
46	746	629F/33-35-42	675F/40-41-47	689F/42-43-48
43	766	640F/34-36-44	688F/41-42-48	703F/43-44-49
40	786	652F/35-38-45	702F/42-43-50	717F/44-45-51
37	806	664F/36-39-46	716F/43-44-51	732F/45-46-52
34	825	675F/36-40-48	727F/43-45-52	744F/45-47-54
31	843	687F/37-40-49	739F/44-46-53	756F/46-48-55
28	857	695F/38-41-50	748F/44-47-54	765F/46-49-56
25	858	699F/38-42-50	751F/45-47-55	769F/47-49-56
22	858	702F/39-42-50	755F/45-48-55	773F/47-50-56
19	859	706F/39-42-51	759F/46-48-55	777F/48-50-57
16	860	709F/40-43-51	762F/46-48-55	781F/48-50-57
13	860	713F/40-43-51	766F/46-49-56	784F/49-51-57
10	861	716F/40-43-52	770F/47-49-56	788F/49-51-58
5	862	722F/41-44-52	776F/47-50-57	795F/49-51-58
0	862	728F/42-45-53	783F/48-51-57	802F/49-51-58
-5	862	734F/42-45-53	789F/49-51-58	809F/49-51-58
-10	862	740F/43-46-54	796F/49-51-58	815*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2300 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20 49 703 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2582 FT

RUNWAY 13

ZBYN

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				WUSUJICHANG TY/NORTH CHINA DATED 10-JUN-2019		
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
OAT C	100KG	-10	0	10		
61A	617	626*/36-36-40 641**45-47-50	637*/36-36-40 649**50-51-54	641*/36-36-40 649**50-51-54		
58A	633	642*/38-38-41 656**46-48-51	653*/38-38-41 665**51-53-56	657*/38-38-41 665**52-53-56		
55A	649	658*/39-40-43 671**47-49-52	663*/40-40-43 682**53-55-58	663*/40-40-43 682**53-55-58		
52A	665	672*/41-41-45 685**48-49-53	676*/41-41-45 699**55-56-60	677*/41-41-45 699**55-56-60		
49	681	689*/42-43-46 700**49-50-54	693*/43-43-46 716**56-58-61	694*/43-43-46 716**56-58-61		
46	699	708*/44-44-48 717**49-51-55	712*/44-44-48 736**58-60-63	714*/44-44-48 736**58-60-63		
43	717	727*/45-46-50 729**49-50-54	731*/46-46-50 754**59-61-65	732*/46-46-50 755**60-62-65		
40	736	745*/46-48-52 741**48-49-54	749*/47-48-52 768**58-60-64	751*/47-48-52 775**61-64-67		
37	756	750B/47-49-53	769*/48-50-54 782**57-59-63	770*/49-50-54 790**60-63-67		
34	773	755B/47-49-54	786*/50-51-55 790**55-57-61	788*/50-51-55 790**55-57-61		
31	789	761B/47-50-55	802*/51-52-57	804*/51-52-57		
28	803	765B/47-50-55	816*/51-52-57	818*/51-52-57		
25	814	770B/47-50-56	831*/50-52-57	832*/50-52-57		
22	815	774B/48-50-56	835*/50-52-57	839*/50-52-57		
19	815	778B/48-51-56	835*/50-52-57	840*/50-52-57		
16	816	782B/48-51-57	836*/50-52-57	841*/50-52-57		
13	816	786B/49-52-57	836*/50-52-57	841*/50-52-57		
10	817	790B/49-52-57	837*/50-52-57	842*/51-52-57		
5	818	803B/49-52-57	838*/50-52-57	842*/51-52-57		
0	818	817B/49-52-57	838*/50-52-57	843*/51-52-57		
-5	819	824*/49-52-57	839*/50-52-57	844*/51-52-57		
-10	819	825*/50-52-57	840*/50-52-57	845*/51-52-57		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 780 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 150 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.26 PERCENT FOR TODA AND 0.26 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 13 443 11005 0 30 650 0 131 3962 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2582 FT

RUNWAY 31

ZBYN

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

WUSUJICHANG

TY/NORTH CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	617	596*/33-34-37	609*/35-35-39	613*/36-36-39
		621**44-47-51	635**47-49-52	640**48-50-53
58A	633	611*/34-35-39	624*/37-37-41	629*/37-38-41
		637**46-49-52	651**49-51-54	656**50-52-55
55A	649	626*/36-37-41	640*/38-39-42	644*/39-39-43
		652**48-51-54	667**50-53-56	672**51-53-57
52A	665	641*/37-39-43	655*/39-40-44	655*/40-40-44
		668**49-52-56	683**52-54-58	689**53-55-58
49	681	657*/38-40-44	658*/39-40-44	658*/40-40-44
		684**51-54-58	696**53-56-59	697**53-56-59
46	699	674*/40-42-46	678*/41-42-46	678*/41-42-47
		699**51-54-58	718**55-58-61	718**55-58-61
43	717	691*/41-43-48	698*/43-44-49	699*/43-44-49
		712**49-53-57	736**56-60-63	740**57-60-64
40	736	707*/42-45-49	719*/44-46-50	719*/45-46-50
		724**49-52-56	753**58-61-65	759**58-62-66
37	756	724*/44-46-51	738*/46-48-52	738*/46-48-52
		736**48-51-56	769**57-61-65	777**60-64-67
34	773	739*/45-48-53	755*/47-49-54	757*/48-49-54
		746**47-50-55	781**56-60-64	790**59-63-67
31	789	754*/46-49-54	770*/48-50-55	775*/49-51-56
		756**46-50-55	790**55-59-63	790**54-57-61
28	803	763B/46-50-55	783*/49-52-57	788*/50-52-57
			790**51-54-59	790**50-53-58
25	814	768B/46-50-56	794*/49-52-57	799*/50-52-57
22	815	772B/47-50-56	794*/49-52-57	800*/50-52-57
19	815	775B/47-51-56	795*/49-52-57	800*/50-52-57
16	816	779*/47-51-56	795*/50-52-57	801*/50-52-57
13	816	779*/47-51-56	796*/50-52-57	801*/50-52-57
		781**48-52-57		
10	817	780*/48-51-57	796*/50-52-57	802*/50-52-57
		784**49-52-58		
5	818	780*/48-51-57	797*/50-52-57	802*/50-52-57
		787**50-54-59		
0	818	781*/48-51-57	797*/50-52-57	803*/50-52-57
		790**51-55-60		
-5	819	781*/48-51-57	798*/50-52-57	803*/50-52-57
		790**51-54-60		
-10	819	781*/48-51-57	798*/50-52-57	804*/50-52-57
		790**51-54-60		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1470 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 150 M OF CLEARWAY AND 60 M OF STOPWAY

RUNWAY SLOPES ARE -0.26 PERCENT FOR TODA AND -0.26 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

31 276 5338 0 991 16888 0 650 15697 0
13 250 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2359 FT

RUNWAY 12

ZBZJ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				NINGYUANGJICHANG ZJK/NORTH CHINA
				DATED 10-JUN-2019
737-800	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10 0 10	
61A	621	582*/31-32-36	589*/33-33-37	590*/33-33-37
		597**38-39-43	620**45-46-50	625**46-48-51
58A	637	597*/33-33-38	605*/34-34-39	606*/35-35-39
		611**38-40-44	634**46-47-51	641**48-50-53
55A	653	612*/34-35-40	621*/36-36-40	622*/36-36-41
		624**39-41-45	648**47-48-52	656**49-50-54
52A	669	627*/36-37-41	636*/38-38-42	638*/38-38-42
		637**40-42-46	662**47-49-53	670**50-51-55
49	686	642*/37-38-43	653*/39-39-44	654*/40-40-44
		651**41-42-47	677**48-50-53	685**51-52-56
46	704	659*/39-40-45	671*/41-41-46	672*/41-41-46
		666**41-43-48	694**49-50-55	702**51-53-57
43	723	675*/40-41-46	687*/42-43-48	689*/43-43-48
		681**42-44-49	709**50-51-56	718**52-54-58
40	742	690*/41-43-48	704*/44-44-49	706*/44-44-49
		696**43-45-50	724**51-53-57	734**53-55-59
37	761	706*/42-44-50	721*/45-46-51	722*/45-46-51
		711**44-46-51	739**51-53-58	749**54-56-60
34	779	720*/43-45-51	735*/46-47-52	737*/46-47-53
		724**45-47-52	753**52-54-59	763**54-57-61
31	796	735*/44-47-53	751*/47-48-54	753*/47-49-54
		737**45-48-53	767**53-55-60	777**55-58-62
28	809	747*/45-48-54	763*/48-49-55	766*/48-50-55
		748**46-48-54	779**53-56-61	789**56-58-63
25	820	756*/46-49-55	773*/48-50-56	775*/49-51-56
			788**54-56-62	790**53-55-61
22	821	757*/46-49-55	773*/48-50-56	775*/49-51-56
		759**47-49-55	790**54-57-62	790**53-55-61
19	821	757*/46-49-55	773*/48-50-56	775*/49-50-56
		761**47-50-56	790**54-57-62	790**53-55-61
16	822	757*/46-49-55	772*/48-50-56	775*/49-50-56
		763**48-51-56	790**54-57-62	790**53-55-61
13	822	757*/46-49-55	772*/48-50-56	774*/49-50-56
		764**48-51-57	790**54-57-62	790**53-56-61
10	822	758*/46-49-55	772*/48-50-56	774*/49-50-56
		766**49-52-58	790**54-57-62	790**53-56-61
5	823	758*/46-49-55	771*/48-50-56	773*/49-50-56
		769**50-53-59	790**54-56-62	790**54-56-61
0	824	758*/46-49-55	770*/48-50-56	772*/49-50-56
		772**51-54-60	790**54-57-62	790**54-56-61
-5	825	758*/46-49-55	769*/48-50-56	771*/49-50-56
		774**52-55-61	790**54-57-62	790**54-56-62
-10	825	758*/46-49-55	768*/48-50-56	770*/49-50-56
		777**53-56-62	790**54-57-62	790**54-57-62

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2060 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.43 PERCENT FOR TODA AND 0.43 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

12	1411	21291	0
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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2359 FT

RUNWAY 30

ZBZJ

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	NINGYUANGJICHANG ZJK/NORTH CHINA
737-800		CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	621	599*/33-34-38 610**38-40-44	614*/35-36-39 634**45-48-51	619*/36-37-40 641**48-50-53
58A	637	614*/34-36-40 624**39-41-45	629*/37-38-41 648**46-48-52	634*/38-38-42 656**49-51-54
55A	653	629*/36-37-41 637**39-42-46	645*/38-39-43 663**47-49-52	650*/39-40-43 671**49-52-55
52A	669	644*/37-39-43 651**40-43-47	660*/40-41-44 678**48-50-53	665*/41-41-45 686**50-52-56
49	686	659*/38-40-45 665**41-43-48	676*/41-42-46 693**48-51-54	681*/42-43-47 701**51-53-57
46	704	676*/40-42-46 681**42-44-49	693*/43-44-48 709**49-52-55	699*/43-44-48 718**52-54-58
43	723	693*/41-43-48 697**43-45-50	711*/44-45-50 725**50-52-56	716*/45-46-50 735**52-55-59
40	742	711*/42-45-50 713**43-46-51	728*/45-47-51 742**51-53-58	734*/46-48-52 752**53-56-60
37	761	728*/44-47-52	746*/46-48-53 758**51-54-58	752*/47-49-54 768**54-57-61
34	779	741F/44-48-53	762*/48-50-55 773**52-55-59	768*/48-51-55 784**54-57-62
31	796	752F/45-49-54	778*/49-51-56 788**52-56-60	785*/50-52-57 790**51-54-59
28	809	762F/46-49-55	791*/49-52-57	798*/50-52-57
25	820	770F/46-50-56	801*/49-52-57	807*/49-52-57
22	821	774F/46-50-56	802*/49-52-57	808*/49-52-57
19	821	777F/47-51-56	803*/49-52-57	809*/49-52-57
16	822	781F/47-51-57	803*/49-52-57	810*/49-52-57
13	822	785F/48-51-57	804*/49-52-57	810*/49-52-57
10	822	786*/48-52-57	805*/49-52-57	811*/50-52-57
		787**48-52-58		
5	823	787*/48-52-57 790**49-53-58	806*/49-52-57	812*/50-52-57
0	824	788*/48-52-57 790**49-53-58	807*/49-52-57	814*/50-52-57
-5	825	789*/48-52-57	808*/49-52-57	815*/50-52-57
-10	825	790*/48-52-57	809*/49-52-57	816*/50-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 660 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

* = OBSTACLE/LEVEL-OFF, ** = IMPROVED CLIMB

RUNWAY	RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY				
	RUNWAY SLOPES ARE -0.43 PERCENT FOR TODA AND -0.43 PERCENT FOR ASDA				
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M					
30	HT	DIST	OFFSET	HT	DIST
	322	5745	0	338	6610
	223	4362	0	141	2521
	207	3944	0	243	4253
	187	3517	0		
				220	4211
				282	4921
				449	7447
					0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 85 FT

RUNWAY 01 ZGBH

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			FUCHENG JICHANG BH/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	100KG	-10	0	10
61A	669	695*/41-42-45	713*/42-42-45	718*/42-42-45	
		685**46-48-51	702**54-56-59	703**55-57-60	
58A	685	710*/42-43-47	729*/43-43-47	734*/43-43-47	
		699**47-48-52	718**55-57-60	721**56-58-62	
55A	702	726F/44-45-49	745*/45-45-49	751*/45-45-49	
		714**47-49-53	733**55-57-61	738**58-60-64	
52	720	739F/45-46-50	763*/46-46-50	769*/46-46-50	
		730**48-50-53	750**56-58-62	755**59-61-64	
49	739	752F/46-48-52	781*/47-48-52	788*/48-48-52	
		746**49-50-54	767**57-59-62	773**59-62-65	
46	759	766F/48-50-54	800*/49-50-54	807*/49-50-54	
		763**49-51-55	785**57-60-63	790**59-61-65	
43	779	778B/49-51-56	819*/50-52-56	826*/50-52-56	
			790**53-55-59	790**54-55-59	
40	799	784B/49-52-57	837*/51-52-57	844*/51-52-57	
37	820	789B/49-52-57	852*/50-52-57	860*/50-52-57	
34	839	799B/48-52-57	862F/49-52-57	862F/50-52-57	
31	859	810B/48-51-58	862F/49-51-58	862F/49-51-58	
28	862	819B/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	827B/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	835B/47-51-58	862F/49-51-58	862F/49-51-58	
19	862	843B/47-51-58	862F/49-51-58	862F/49-51-58	
16	862	851B/47-51-58	862F/49-51-58	862F/49-51-58	
13	862	860B/47-51-58	862F/49-51-58	862F/49-51-58	
10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
0	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 330 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.13 PERCENT FOR TODA AND 0.13 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 30 1060 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 85 FT

RUNWAY 19 ZGBH

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	FUCHENG JICHANG BH/SOUTHCENTRAL DATED 10-JUN-2019	
737-800	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10
61A	669	692*/41-42-45	711*/41-42-45	717*/42-42-45	
		687**47-49-52	703**54-57-60	703**55-57-60	
58A	685	708*/42-43-47	727*/43-43-47	734*/43-43-47	
		701**47-49-53	719**55-58-61	721**56-58-62	
55A	702	723*/43-45-49	743*/44-45-49	750*/44-45-49	
		716**48-50-53	735**56-58-62	738**58-60-64	
52	720	740*/45-46-50	761*/45-46-50	767*/46-46-50	
		732**48-50-54	752**56-59-62	757**59-62-65	
49	739	757F/46-48-52	779*/47-48-52	786*/47-48-52	
		748**49-51-55	769**57-60-63	775**60-63-66	
46	759	771F/47-50-54	798*/48-50-54	805*/49-50-54	
		765**49-52-56	787**57-60-64	790**59-61-65	
43	779	777B/49-51-56	816*/50-52-56	824*/50-52-56	
			790**53-55-59	790**53-55-59	
40	799	783B/49-52-56	834*/50-52-57	841*/50-52-57	
37	820	788B/48-52-57	849*/50-52-57	857*/50-52-57	
34	839	796B/48-52-57	862F/49-52-57	862F/49-52-57	
31	859	807B/47-51-58	862F/48-51-58	862F/49-51-58	
28	862	817B/47-51-58	862F/48-51-58	862F/48-51-58	
25	862	825B/47-51-58	862F/48-51-58	862F/48-51-58	
22	862	832B/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	840B/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	849B/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	857B/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 380 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.13 PERCENT FOR TODA AND -0.13 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19 33 1060 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 01 ZGGG

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			BAIYUNJICHANG GZ/SOUTHCENTRAL DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)					
C	100KG	-10	0	10			
61A	670	582*/30-31-37	600*/33-33-38	606*/34-34-39			
		601**40-44-48	619**44-46-51	626**45-47-51			
58A	686	596*/31-32-38	614*/34-35-40	620*/35-35-41			
		615**42-45-50	634**45-48-52	640**46-49-53			
55A	702	610*/32-34-40	629*/36-36-42	635*/37-37-42			
		629**43-47-52	649**47-49-54	655**48-50-55			
52	721	626*/34-36-42	644*/37-38-44	651*/38-39-44			
		645**45-49-54	665**48-51-56	672**49-52-57			
49	740	642*/35-37-44	661*/39-39-45	668*/40-40-46			
		662**46-50-56	683**50-53-58	689**51-54-59			
46	760	659*/37-39-45	679*/40-41-47	685*/41-42-48			
		679**48-52-58	700**51-55-60	707**52-55-60			
43	780	676*/38-40-47	695*/41-43-49	702*/42-43-49			
		696**49-54-59	717**52-56-62	725**54-57-62			
40	800	691*/39-42-49	711*/42-44-50	718*/43-45-51			
		712**50-55-61	734**54-58-63	741**55-59-64			
37	820	707*/40-43-50	727*/44-45-52	734*/45-46-53			
		728**51-57-63	750**55-59-65	758**56-60-66			
34	840	723*/41-45-52	744*/45-47-54	751*/46-48-54			
		745**53-58-65	768**56-61-67	775**57-62-67			
31	860	739*/43-46-54	761*/46-48-55	768*/47-49-56			
		761**53-59-65	785**57-63-69	790**57-61-67			
28	862	746*/43-47-54	768*/46-49-56	775*/47-50-57			
		767**53-59-66	790**56-61-68	790**53-57-63			
25	862	747*/43-47-54	769*/46-49-56	776*/47-50-57			
		769**54-60-66	790**56-61-67	790**53-57-63			
22	862	748*/43-47-54	769*/46-49-56	777*/48-50-57			
		771**54-61-67	790**55-60-66	790**53-56-63			
19	862	748*/43-47-54	770*/47-49-56	778*/48-50-57			
		771**55-61-67	790**55-59-66	790**53-56-62			
16	862	749*/43-47-54	771*/47-49-56	778*/48-50-57			
		772**55-61-67	790**55-59-65	790**52-56-62			
13	862	749*/43-47-55	771*/47-49-56	779*/48-50-57			
		773**55-61-67	790**54-59-65	790**52-55-62			
10	862	750*/43-47-55	772*/47-49-56	780*/48-50-57			
		773**55-61-67	790**54-58-65	790**52-55-62			
5	862	751*/44-47-55	773*/47-49-57	781*/48-50-57			
		774**55-61-68	790**54-58-64	790**52-55-61			
0	862	751*/44-47-55	774*/47-49-57	781*/48-50-57			
		775**55-61-68	790**54-57-64	790**51-54-61			
-5	862	752*/44-47-55	774*/47-49-57	782*/48-50-57			
		776**55-61-68	790**53-57-64	790**51-54-61			
-10	862	752*/44-47-55	775*/47-49-57	782*/48-50-57			
		776**55-61-68	790**53-57-63	790**51-54-60			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2280 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.17 PERCENT FOR TODA AND 0.17 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 1378 13200 0 1509 15300 0 1411 17800 0
 1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 01/F9 ZGGG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

BAIYUNJICHANG

GZ/SOUTHCENTRAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10	
61A	670	580*/29-31-37	598*/33-33-38	604*/34-34-39		
		598**40-43-48	617**43-46-50	624**44-47-51		
58A	686	594*/31-32-38	612*/34-34-40	618*/35-35-41		
		613**41-45-50	632**45-47-52	638**46-48-53		
55A	702	609*/32-34-40	627*/35-36-42	633*/37-37-42		
		627**43-46-52	647**46-49-54	653**47-50-55		
52	721	624*/33-35-42	643*/37-38-43	649*/38-38-44		
		643**44-48-54	663**48-51-56	670**49-52-56		
49	740	640*/35-37-43	659*/38-39-45	666*/39-40-46		
		660**46-50-55	680**49-53-58	687**50-53-58		
46	760	657*/36-39-45	677*/40-41-47	683*/41-42-48		
		677**47-52-57	698**51-54-60	705**52-55-60		
43	780	674*/38-40-47	693*/41-42-49	700*/42-43-49		
		694**49-53-59	715**52-56-61	722**53-57-62		
40	800	689*/39-41-49	709*/42-44-50	716*/43-45-51		
		709**50-55-61	731**53-57-63	739**55-58-64		
37	820	704*/40-43-50	725*/43-45-52	732*/44-46-53		
		725**51-56-63	748**55-59-65	755**56-60-65		
34	840	720*/41-44-52	742*/44-47-54	749*/45-47-54		
		742**52-58-64	765**56-61-66	773**57-62-67		
31	860	737*/42-46-53	759*/46-48-55	766*/47-49-56		
		759**53-59-66	783**57-62-68	790**58-63-69		
28	862	744*/43-46-54	766*/46-49-56	773*/47-49-56		
		765**53-59-66	790**58-63-69	790**54-58-64		
25	862	744*/43-46-54	766*/46-49-56	774*/47-50-57		
		767**54-60-67	790**57-62-69	790**54-58-64		
22	862	745*/43-46-54	767*/46-49-56	775*/47-50-57		
		768**54-60-67	790**57-62-68	790**54-57-64		
19	862	746*/43-47-54	768*/46-49-56	775*/47-50-57		
		769**54-61-67	790**56-61-67	790**53-57-63		
16	862	746*/43-47-54	769*/46-49-56	776*/48-50-57		
		769**54-61-67	790**56-61-67	790**53-57-63		
13	862	747*/43-47-54	769*/47-49-56	777*/48-50-57		
		770**54-61-67	790**56-60-66	790**53-56-63		
10	862	747*/43-47-54	770*/47-49-56	777*/48-50-57		
		771**55-61-67	790**55-60-66	790**53-56-62		
5	862	748*/43-47-54	771*/47-49-56	778*/48-50-57		
		772**55-61-67	790**55-59-65	790**52-56-62		
0	862	749*/43-47-55	772*/47-49-56	779*/48-50-57		
		772**55-61-67	790**54-58-65	790**52-55-62		
-5	862	749*/44-47-55	772*/47-49-56	780*/48-50-57		
		773**55-61-67	790**54-58-65	790**52-55-61		
-10	862	749*/44-47-55	772*/47-49-56	780*/48-50-57		
		773**55-61-67	790**54-58-64	790**52-55-61		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2270 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3380 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.17 PERCENT FOR TODA AND 0.17 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/MRUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
01/F9 1378 13200 0 1509 15300 0 1411 17800 0
1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02L ZGGG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				BAIYUNJICHANG GZ/SOUTHCENTRAL DATED 10-JUN-2019			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10	
737-800	CFM56-7B26		61A	670	573*/28-30-36 590**39-42-47	591*/32-32-38 609**42-45-49	597*/33-33-38 616**43-46-50
			58A	686	587*/30-31-37 604**40-44-49	605*/33-33-39 624**44-46-51	611*/34-34-40 630**45-47-52
			55A	702	600*/31-33-39 619**42-45-51	619*/34-35-41 638**45-48-53	625*/36-36-41 645**46-49-54
			52	721	616*/32-34-41 634**43-47-53	635*/36-37-43 654**47-50-55	641*/37-37-43 661**48-51-56
			49	740	632*/34-36-43 651**45-49-54	651*/37-38-44 671**48-51-57	658*/39-39-45 678**49-52-57
			46	760	648*/35-38-44 668**46-51-56	668*/39-40-46 689**50-53-59	675*/40-41-47 696**51-54-59
			43	780	665*/37-39-46 684**48-52-58	685*/40-41-48 706**51-55-60	691*/41-42-49 713**52-56-61
			40	800	680*/38-40-48 699**49-54-60	700*/41-43-50 721**52-56-62	707*/42-44-50 729**53-57-63
			37	820	695*/39-42-49 715**50-55-61	716*/42-44-51 737**53-58-64	723*/43-45-52 745**55-59-64
			34	840	710*/40-43-51 731**51-57-63	732*/43-46-53 754**55-59-65	739*/45-46-53 762**56-60-66
			31	860	727*/41-45-53 748**52-58-65	749*/45-47-54 772**56-61-67	756*/46-48-55 780**57-62-68
			28	862	733*/42-45-53 755**53-59-66	755*/45-48-55 779**57-62-68	763*/46-48-56 787**58-63-69
			25	862	734*/42-45-53 756**53-59-66	756*/45-48-55 780**57-62-68	764*/46-48-56 788**58-63-69
			22	862	735*/42-45-53 757**53-59-66	757*/45-48-55 781**57-62-68	764*/46-48-56 789**58-63-69
			19	862	735*/42-45-53 757**53-59-66	758*/45-48-55 781**57-62-68	765*/46-49-56 790**58-63-69
			16	862	736*/42-45-53 758**53-59-66	758*/45-48-55 782**57-62-68	766*/47-49-56 790**58-63-69
			13	862	736*/42-45-53 759**53-59-66	759*/46-48-55 783**57-62-68	766*/47-49-56 790**58-62-68
			10	862	737*/42-46-53 759**53-59-66	759*/46-48-55 784**57-62-68	767*/47-49-56 790**57-62-68
			5	862	737*/42-46-54 760**53-60-66	760*/46-48-55 785**57-62-69	768*/47-49-56 790**57-61-67
			0	862	738*/42-46-54 761**54-60-66	761*/46-48-56 786**57-62-69	769*/47-49-56 790**56-60-67
			-5	862	738*/43-46-54 761**54-60-66	761*/46-48-56 786**58-62-69	769*/47-49-56 790**56-60-66
			-10	862	738*/43-46-54 762*/46-48-56	762*/46-48-56 787**58-62-69	769*/47-49-56 790**56-60-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2250 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.24 PERCENT FOR TODA AND 0.24 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02L 951 10900 0 1342 17800 0 1722 38700 0
 1542 13700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02L/A9 ZGGG

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	BAIYUNJICHANG GZ/SOUTHCENTRAL			
737-800	CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE							
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)							
C	100KG	-10	0	10			
61A	670	571*/28-29-36 588**38-42-47	589*/32-32-37 607**42-44-49	595*/33-33-38 614**43-45-50			
58A	686	585*/29-31-37	603*/33-33-39	609*/34-34-40			
		602**40-43-49	622**43-46-51	628**45-47-52			
55A	702	599*/31-32-39 616**41-45-50	617*/34-35-41 636**45-48-53	624*/35-36-41 643**46-49-53			
52	721	614*/32-34-41	633*/36-36-42	639*/37-37-43			
		632**43-47-52	652**46-49-55	659**48-50-55			
49	740	630*/34-36-42	649*/37-38-44	656*/38-39-45			
		648**44-49-54	669**48-51-56	676**49-52-57			
46	760	646*/35-37-44	666*/39-40-46	673*/40-40-47			
		665**46-50-56	687**50-53-58	694**51-54-59			
43	780	662*/37-39-46	683*/40-41-48	690*/41-42-48			
		682**47-52-58	703**51-55-60	711**52-55-61			
40	800	677*/38-40-48	698*/41-43-49	705*/42-43-50			
		697**49-53-60	719**52-56-62	727**53-57-63			
37	820	693*/39-42-49	714*/42-44-51	721*/43-45-52			
		712**50-55-61	735**53-58-63	742**54-58-64			
34	840	708*/40-43-51	730*/43-45-53	737*/44-46-53			
		729**51-56-63	752**54-59-65	760**56-60-66			
31	860	725*/41-44-52	746*/44-47-54	754*/45-48-55			
		746**52-58-65	769**56-61-67	777**57-62-68			
28	862	731*/42-45-53	753*/45-47-55	761*/46-48-55			
		752**53-59-65	776**56-61-68	784**58-62-68			
25	862	732*/42-45-53	754*/45-47-55	762*/46-48-56			
		753**53-59-65	777**56-62-68	785**58-62-69			
22	862	732*/42-45-53	755*/45-47-55	762*/46-48-56			
		754**53-59-66	778**56-62-68	786**58-63-69			
19	862	733*/42-45-53	755*/45-48-55	763*/46-48-56			
		755**53-59-66	779**57-62-68	787**58-63-69			
16	862	733*/42-45-53	756*/45-48-55	764*/46-48-56			
		755**53-59-66	780**57-62-68	788**58-63-69			
13	862	734*/42-45-53	757*/45-48-55	764*/46-48-56			
		756**53-59-66	780**57-62-68	789**58-63-69			
10	862	734*/42-45-53	757*/45-48-55	765*/47-49-56			
		757**53-59-66	781**57-62-68	789**58-63-69			
5	862	735*/42-45-53	758*/46-48-55	766*/47-49-56			
		758**53-59-66	782**57-62-68	790**58-63-69			
0	862	736*/42-45-53	759*/46-48-55	767*/47-49-56			
		758**53-59-66	783**57-62-68	790**58-62-68			
-5	862	736*/42-45-53	759*/46-48-55	767*/47-49-56			
		759**53-59-66	784**57-62-68	790**57-62-68			
-10	862	736*/42-45-53	759*/46-48-55	767*/47-49-56			
		759**53-59-66	784**57-62-68	790**57-61-67			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2240 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3580 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.24 PERCENT FOR TODA AND 0.24 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02L/A9 951 10900 0 1342 17800 0 1722 38700 0
 1542 13700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02R ZGGG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				BAIYUNJICHANG GZ/SOUTHCENTRAL DATED 10-JUN-2019			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10	
737-800	CFM56-7B26		61A	670	574*/28-30-36 592**39-42-47	592*/32-32-38 611**42-45-50	598*/33-33-38 617**43-46-50
			58A	686	588*/30-31-37 606**40-44-49	606*/33-34-39 625**44-47-51	612*/34-34-40 632**45-47-52
			55A	702	602*/31-33-39 620**41-46-51	620*/34-35-41 640**45-48-53	627*/36-36-42 646**46-49-54
			52	721	617*/32-34-41 635**43-47-53	636*/36-37-43 656**47-50-55	642*/37-38-43 663**48-51-56
			49	740	633*/34-36-43 652**45-49-55	653*/37-38-45 673**48-52-57	659*/38-39-45 680**49-52-58
			46	760	650*/35-38-45 669**46-51-57	670*/39-40-46 690**50-53-59	676*/40-41-47 697**51-54-59
			43	780	666*/37-39-46 685**48-52-58	686*/40-42-48 707**51-55-61	693*/41-42-49 714**52-56-61
			40	800	681*/38-41-48 701**49-54-60	702*/41-43-50 723**52-57-62	709*/42-44-50 730**53-57-63
			37	820	696*/39-42-49 716**50-55-62	717*/42-44-51 739**53-58-64	724*/43-45-52 746**55-59-65
			34	840	712*/40-43-51 733**51-57-63	733*/43-46-53 756**55-60-66	741*/44-46-53 764**56-61-66
			31	860	728*/41-45-53 750**52-59-65	750*/45-47-54 773**56-61-67	758*/46-48-55 781**57-62-68
			28	862	735*/42-45-53 756**53-59-66	757*/45-48-55 780**56-62-68	765*/46-49-56 788**58-63-69
			25	862	736*/42-45-53 757**53-59-66	758*/45-48-55 781**57-62-68	765*/46-49-56 790**58-63-69
			22	862	736*/42-46-53 758**53-59-66	759*/45-48-55 782**57-62-68	766*/46-49-56 790**58-63-69
			19	862	737*/42-46-53 759**53-59-66	759*/45-48-55 783**57-62-68	767*/46-49-56 790**57-62-68
			16	862	737*/42-46-54 760**53-60-66	760*/45-48-55 784**57-62-68	768*/46-49-56 790**57-62-68
			13	862	738*/42-46-54 760**53-60-66	761*/45-48-55 785**57-62-69	768*/47-49-56 790**56-61-67
			10	862	739*/42-46-54 761**53-60-66	761*/46-48-56 785**57-62-69	769*/47-49-56 790**56-60-67
			5	862	739*/42-46-54 762**53-60-66	762*/46-48-56 787**57-63-69	770*/47-49-56 790**55-60-66
			0	862	740*/42-46-54 763**53-60-66	763*/46-48-56 787**57-63-69	771*/47-49-56 790**55-59-65
			-5	862	740*/42-46-54 763**53-60-66	763*/46-48-56 788**57-63-69	771*/47-49-56 790**55-59-65
			-10	862	740*/43-46-54 763**54-60-67	764*/46-48-56 789**57-63-69	771*/47-49-56 790**55-58-65

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2220 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R 951 10900 0 1542 13700 0 1342 17800 0
 1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02R/M9 ZGGG

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	BAIYUNJICHANG GZ/SOUTHCENTRAL			
737-800	CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE							
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)							
C 100KG	-10 0 10						
61A 670	570*/28-29-35 587**38-42-47	588*/31-32-37 607**42-44-49	595*/32-33-38 613**43-45-50				
58A 686	584*/29-31-37 601**39-43-49	603*/33-33-39 621**43-46-51	609*/34-34-40 628**44-47-52				
55A 702	598*/31-32-39 615**41-45-50	617*/34-35-41 635**45-48-53	623*/35-35-41 642**46-48-53				
52 721	613*/32-34-40 631**42-47-52	632*/35-36-42 651**46-49-54	639*/37-37-43 658**47-50-55				
49 740	629*/33-36-42 647**44-48-54	649*/37-38-44 668**48-51-56	655*/38-39-45 675**49-52-57				
46 760	646*/35-37-44 664**45-50-56	666*/38-40-46 686**49-53-58	672*/39-40-47 693**50-54-59				
43 780	662*/36-39-46 680**47-52-58	682*/40-41-48 702**51-54-60	689*/41-42-48 710**52-55-61				
40 800	677*/37-40-47 696**48-53-59	698*/41-42-49 718**52-56-62	704*/42-43-50 726**53-57-62				
37 820	692*/38-41-49 711**49-55-61	713*/42-44-51 734**53-57-63	720*/43-45-51 742**54-58-64				
34 840	707*/40-43-51 727**50-56-63	729*/43-45-52 751**54-59-65	736*/44-46-53 759**55-60-66				
31 860	724*/41-44-52 744**52-58-65	746*/44-47-54 768**55-61-67	753*/45-47-55 776**57-62-68				
28 862	730*/41-45-53 751**52-59-65	752*/45-47-55 775**56-61-68	760*/46-48-55 783**57-62-68				
25 862	731*/41-45-53 752**52-59-65	753*/45-47-55 776**56-61-68	761*/46-48-55 784**57-62-68				
22 862	732*/41-45-53 753**52-59-65	754*/45-47-55 777**56-62-68	762*/46-48-56 785**57-62-69				
19 862	732*/41-45-53 753**52-59-66	755*/45-47-55 778**56-62-68	762*/46-48-56 786**57-63-69				
16 862	733*/42-45-53 754**52-59-66	755*/45-48-55 779**56-62-68	763*/46-48-56 787**57-63-69				
13 862	733*/42-45-53 755**52-59-66	756*/45-48-55 779**56-62-68	764*/46-48-56 788**58-63-69				
10 862	734*/42-45-53 755**53-59-66	757*/45-48-55 780**56-62-68	764*/46-48-56 788**58-63-69				
5 862	734*/42-45-53 756**53-59-66	758*/45-48-55 781**57-62-68	765*/46-49-56 790**58-63-69				
0 862	735*/42-45-53 757**53-59-66	758*/45-48-55 782**57-62-68	766*/46-49-56 790**58-63-69				
-5 862	735*/42-45-53 758**53-59-66	759*/45-48-55 783**57-62-68	767*/47-49-56 790**57-62-68				
-10 862	735*/42-45-53 758**53-59-66	759*/46-48-55 783**57-62-68	767*/47-49-56 790**57-62-68				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2210 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3372 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R/M9 951 10900 0 1542 13700 0 1342 17800 0
 1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 02R/Y17 ZGGG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				BAIYUNJICHANG GZ/SOUTHCENTRAL DATED 10-JUN-2019	
737-800 CFM56-7B26					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
OAT	CLIMB	C 100KG	-10 0 10		
61A	670	572*/28-30-36 589**38-42-47	590*/31-32-38 609**42-45-49	596*/33-33-38 615**43-45-50	
58A	686	586*/29-31-37 603**40-44-49	604*/33-33-39 623**43-46-51	611*/34-34-40 630**45-47-52	
55A	702	600*/31-33-39 618**41-45-50	619*/34-35-41 638**45-48-53	625*/35-36-41 644**46-49-54	
52	721	615*/32-34-41 633**43-47-52	634*/36-37-43 654**46-50-55	641*/37-37-43 660**48-50-55	
49	740	631*/34-36-42 649**44-49-54	651*/37-38-44 670**48-51-57	657*/38-39-45 678**49-52-57	
46	760	648*/35-37-44 666**46-50-56	668*/39-40-46 688**49-53-58	674*/40-41-47 695**51-54-59	
43	780	664*/36-39-46 683**47-52-58	684*/40-41-48 705**51-55-60	691*/41-42-48 712**52-56-61	
40	800	679*/38-40-48 698**48-54-60	700*/41-43-49 720**52-56-62	707*/42-43-50 728**53-57-63	
37	820	694*/39-42-49 714**49-55-61	715*/42-44-51 736**53-58-64	722*/43-45-52 744**54-59-64	
34	840	710*/40-43-51 730**51-57-63	731*/43-45-53 753**54-59-65	738*/44-46-53 761**56-60-66	
31	860	726*/41-45-52 747**52-58-65	748*/44-47-54 771**56-61-67	755*/45-48-55 779**57-62-68	
28	862	732*/41-45-53 754**52-59-66	755*/45-47-55 778**56-62-68	762*/46-48-56 786**57-63-69	
25	862	733*/42-45-53 755**52-59-66	756*/45-48-55 779**56-62-68	763*/46-48-56 787**57-63-69	
22	862	734*/42-45-53 755**53-59-66	756*/45-48-55 780**56-62-68	764*/46-48-56 788**58-63-69	
19	862	734*/42-45-53 756**53-59-66	757*/45-48-55 780**56-62-68	765*/46-49-56 789**58-63-69	
16	862	735*/42-45-53 757**53-59-66	758*/45-48-55 781**57-62-68	765*/46-49-56 789**58-63-69	
13	862	736*/42-45-53 757**53-59-66	758*/45-48-55 782**57-62-68	766*/46-49-56 790**58-63-69	
10	862	736*/42-45-53 758**53-59-66	759*/45-48-55 783**57-62-68	767*/46-49-56 790**57-62-68	
5	862	737*/42-45-54 759**53-59-66	760*/45-48-55 784**57-62-68	768*/47-49-56 790**57-61-68	
0	862	737*/42-46-54 760**53-59-66	760*/46-48-55 785**57-62-69	768*/47-49-56 790**56-61-67	
-5	862	738*/42-46-54 760**53-60-66	761*/46-48-56 785**57-62-69	769*/47-49-56 790**56-60-67	
-10	862	738*/42-46-54 761**53-60-66	761*/46-48-56 786**57-62-69	769*/47-49-56 790**56-60-66	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2220 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3580 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R/Y17 951 10900 0 1542 13700 0 1342 17800 0
 1722 38700 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 19 ZGGG

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	BAIYUNJICHANG GZ/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 670	732F/41-42-45 701**52-55-58	772F/42-42-45 704**55-57-60	785F/42-42-45 704**55-57-60
58A 686	746F/42-43-47 716**53-56-59	788F/43-43-47 721**56-58-62	800F/43-43-47 721**56-58-62
55A 702	760F/44-45-49 730**53-55-59	803F/44-45-49 739**58-60-64	816F/45-45-49 739**58-60-64
52 721	775F/45-46-50 742**52-54-58	820F/46-46-50 758**59-62-66	834F/46-46-50 758**59-62-66
49 740	789F/46-48-52 754**51-53-57	835F/47-48-52 778**61-64-68	851F/47-48-52 778**61-64-68
46 760	785B/48-50-54 767**50-52-56	850F/49-50-54 790**58-61-65	862F/49-50-54 790**59-61-65
43 780	778B/49-51-56	862F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59
40 800	784B/49-52-57	862F/50-52-57	862F/51-52-57
37 820	789B/49-52-57	862F/50-52-57	862F/50-52-57
34 840	798B/48-52-58	862F/49-52-58	862F/49-52-58
31 860	809B/47-51-58	862F/48-51-58	862F/49-51-58
28 862	819B/47-51-58	862F/48-51-58	862F/49-51-58
25 862	827B/47-51-58	862F/48-51-58	862F/49-51-58
22 862	835B/47-51-58	862F/48-51-58	862F/49-51-58
19 862	843B/47-51-58	862F/48-51-58	862F/49-51-58
16 862	851B/47-51-58	862F/48-51-58	862F/49-51-58
13 862	859B/47-51-58	862F/48-51-58	862F/49-51-58
10 862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5 862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0 -5	862F/47-51-58	862F/48-51-58 862F/49-51-58	862F/49-51-58 862F/49-51-58
-10 862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 19/F2 ZGGG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	670	710F/41-42-45 691**48-50-53	752F/42-42-45 704**55-57-60	765F/42-42-45 704**55-57-60
58A	686	724F/42-43-47 706**49-51-54	766F/43-43-47 721**56-58-62	781F/43-43-47 721**56-58-62
55A	702	738F/44-45-49 721**50-52-55	780F/44-45-49 739**58-60-64	795F/45-45-49 739**58-60-64
52	721	752F/45-46-50 737**50-53-56	796F/46-46-50 756**58-61-65	811F/46-46-50 758**59-62-66
49	740	768F/46-48-52 754**51-53-57	812F/47-48-52 774**59-62-65	828F/47-48-52 778**61-64-68
46	760	782F/48-50-54 767**50-52-56	830F/49-50-54 790**58-61-65	845F/49-50-54 790**59-61-65
43	780	778B/49-51-56	845F/50-52-56 790**53-55-59	861F/50-52-56 790**53-55-59
40	800	784B/49-52-57	861F/50-52-57	862F/51-52-57
37	820	789B/49-52-57	862F/50-52-57	862F/50-52-57
34	840	798B/48-52-58	862F/49-52-58	862F/49-52-58
31	860	809B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	819B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	827B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	835B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	843B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	851B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	859B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3380 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
19/F2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 20L ZGGG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

BAIYUNJICHANG

GZ/SOUTHCENTRAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	670	751F/41-42-45	789F/42-42-45	802F/42-42-45	
		704**54-57-60	704**55-57-60	704**55-57-60	
58A	686	765F/42-43-47	805F/43-43-47	818F/43-43-47	
		718**54-56-60	721**56-58-62	721**56-58-62	
55A	702	778F/44-45-49	821F/44-45-49	834F/45-45-49	
		730**53-55-59	739**58-60-64	739**58-60-64	
52	721	791F/45-46-50	837F/46-46-50	852F/46-46-50	
		742**52-54-58	758**59-62-66	758**59-62-66	
49	740	795B/46-48-52	852F/47-48-52	862F/47-48-52	
		754**51-53-57	778**61-64-68	778**61-64-68	
46	760	785B/48-50-54	862F/49-50-54	862F/49-50-54	
		767**50-52-56	790**58-61-65	790**59-61-65	
43	780	778B/49-51-56	862F/50-52-56	862F/50-52-56	
		790**53-55-59	790**53-55-59	790**53-55-59	
40	800	784B/49-52-57	862F/50-52-57	862F/51-52-57	
37	820	789B/49-52-57	862F/50-52-57	862F/50-52-57	
34	840	799B/48-52-58	862F/49-52-58	862F/49-52-58	
31	860	809B/47-51-58	862F/48-51-58	862F/49-51-58	
28	862	819B/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	827B/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	835B/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	843B/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	851B/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	859B/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
20L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 20L/Y14 ZGGG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	670	730F/41-42-45 700**52-54-58	770F/42-42-45 704**55-57-60	783F/42-42-45 704**55-57-60
58A	686	744F/42-43-47 715**53-55-58	786F/43-43-47 721**56-58-62	798F/43-43-47 721**56-58-62
55A	702	758F/44-45-49 730**53-55-59	801F/44-45-49 739**58-60-64	814F/45-45-49 739**58-60-64
52	721	773F/45-46-50 742**52-54-58	817F/46-46-50 758**59-62-66	831F/46-46-50 758**59-62-66
49	740	787F/46-48-52 754**51-53-57	833F/47-48-52 778**61-64-68	849F/47-48-52 778**61-64-68
46	760	785B/48-50-54 767**50-52-56	848F/49-50-54 790**58-61-65	862F/49-50-54 790**59-61-65
43	780	778B/49-51-56	862F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59
40	800	784B/49-52-57	862F/50-52-57	862F/51-52-57
37	820	789B/49-52-57	862F/50-52-57	862F/50-52-57
34	840	799B/48-52-58	862F/49-52-58	862F/49-52-58
31	860	809B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	819B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	827B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	835B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	843B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	851B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	859B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3580 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
20L/Y14 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 20R ZGGG

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	BAIYUNJICHANG GZ/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 670	755F/40-42-45 704**54-57-60	797F/41-42-45 704**54-57-60	810F/42-42-45 704**55-57-60	
58A 686	769F/42-43-47 717**53-56-60	813F/43-43-47 721**56-58-62	826F/43-43-47 721**56-58-62	
55A 702	782F/43-45-49 729**52-55-59	827F/44-45-49 739**57-60-64	842F/44-45-49 739**58-60-64	
52 721	796F/45-46-50 741**51-54-58	842F/45-46-50 758**59-62-66	858F/46-46-50 758**59-62-66	
49 740	793B/46-48-52 754**50-53-57	857F/47-48-52 778**61-64-68	862F/47-48-52 778**61-64-68	
46 760	784B/47-50-54 766**49-52-56	862F/48-50-54 790**58-61-65	862F/48-50-54 790**58-61-65	
43 780	777B/49-51-56	862F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59	
40 800	783B/48-52-56 788B/48-52-57	862F/50-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57	
37 820	797B/48-52-58	862F/49-52-58	862F/49-52-58	
34 840	808B/47-51-58	862F/48-51-58	862F/49-51-58	
31 860	817B/47-51-58	862F/48-51-58	862F/48-51-58	
28 862	825B/47-51-58	862F/48-51-58	862F/48-51-58	
25 862	832B/47-51-58	862F/48-51-58	862F/48-51-58	
22 862	840B/47-51-58	862F/48-51-58	862F/48-51-58	
19 862	849B/47-51-58	862F/48-51-58	862F/48-51-58	
16 862	857B/47-51-58	862F/48-51-58	862F/48-51-58	
13 862	862F/47-51-58	862F/48-51-58	862F/48-51-58	
10 862	862F/47-51-58	862F/48-51-58	862F/48-51-58	
5 862	862F/47-51-58	862F/48-51-58	862F/48-51-58	
0 862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-5 862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-10 862	862F/47-51-58	862F/48-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.24 PERCENT FOR TODA AND -0.24 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 20R/A2 ZGGG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

BAIYUNJICHANG
GZ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	670	734F/40-42-45 701**52-55-58	776F/41-42-45 704**54-57-60	791F/42-42-45 704**55-57-60
58A	686	748F/42-43-47 717**53-56-59	791F/43-43-47 721**56-58-62	806F/43-43-47 721**56-58-62
55A	702	762F/43-45-49 729**52-55-59	806F/44-45-49 739**57-60-64	821F/44-45-49 739**58-60-64
52	721	777F/45-46-50 741**51-54-58	822F/45-46-50 758**59-62-66	838F/46-46-50 758**59-62-66
49	740	791F/46-48-52 754**50-53-57	838F/47-48-52 778**61-64-68	854F/47-48-52 778**61-64-68
46	760	784B/47-50-54 766**49-52-56	853F/48-50-54 790**58-61-65	862F/48-50-54 790**58-61-65
43	780	777B/49-51-56	862F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59
40	800	783B/48-52-56	862F/50-52-57	862F/50-52-57
37	820	788B/48-52-57	862F/49-52-57	862F/50-52-57
34	840	797B/48-52-58	862F/49-52-58	862F/49-52-58
31	860	808B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	817B/47-51-58	862F/48-51-58	862F/48-51-58
25	862	825B/47-51-58	862F/48-51-58	862F/48-51-58
22	862	832B/47-51-58	862F/48-51-58	862F/48-51-58
19	862	840B/47-51-58	862F/48-51-58	862F/48-51-58
16	862	849B/47-51-58	862F/48-51-58	862F/48-51-58
13	862	857B/47-51-58	862F/48-51-58	862F/48-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/48-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/48-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3580 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.24 PERCENT FOR TODA AND -0.24 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
20R/A2 NONE

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 18L ZGHA

		AIR COND OFF	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	666	750F/40-41-45 700**53-56-60	791F/41-41-45 700**54-56-60	804F/41-41-45 700**54-56-60
58A	682	764F/42-43-47 714**53-56-59	807F/42-43-47 718**56-58-61	820F/43-43-47 718**56-58-61
55A	699	777F/43-44-48 726**52-55-58	822F/44-44-48 735**57-60-63	836F/44-44-48 735**57-60-63
52	717	791F/44-46-50 738**51-54-58	836F/45-46-50 754**59-62-65	852F/45-46-50 754**59-62-65
49	736	793B/46-48-52 750**50-53-57	851F/47-48-52 774**60-64-67	862F/47-48-52 774**61-64-67
46	756	783B/47-49-54 763**49-52-56	862F/48-49-54 790**60-63-67	862F/48-49-54 790**60-63-67
43	775	775B/48-51-56	862F/49-51-56 790**54-56-60	862F/50-51-56 790**54-56-60
40	796	780B/48-51-56	862F/50-52-57	862F/51-52-57
37	816	786B/48-52-57	862F/50-52-57	862F/50-52-57
34	835	792B/48-52-57	862F/49-52-57	862F/49-52-57
31	855	802B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	812B/47-51-58	862F/48-51-58	862F/48-51-58
25	862	820B/47-51-58	862F/48-51-58	862F/48-51-58
22	862	828B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	836B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	844B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	852B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	860B/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.19 PERCENT FOR TODA AND -0.19 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 18R ZGHA

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 666	691F/40-41-45	732F/41-41-45	746F/41-41-45	
	679**45-46-50	698**53-55-58	700**54-56-60	
58A 682	704F/42-43-47	746F/42-43-47	760F/43-43-47	
	694**45-47-51	714**54-56-59	718**56-58-61	
55A 699	717F/43-44-48	760F/44-44-48	775F/44-44-48	
	709**46-48-52	729**54-57-60	735**57-60-63	
52 717	731F/44-46-50	775F/45-46-50	790F/45-46-50	
	725**47-49-53	746**55-58-61	752**58-61-64	
49 736	746F/46-48-52	791F/46-48-52	806F/47-48-52	
	741**47-50-54	764**56-58-62	769**58-61-65	
46 756	761F/47-49-54	808F/48-49-54	823F/48-49-54	
	759**48-51-55	781**56-59-63	788**59-62-66	
43 775	775B/48-51-56	824F/49-51-56	840F/50-51-56	
		790**54-56-60	790**54-56-60	
40 796	780B/48-51-56	840F/50-52-57	857F/50-52-57	
37 816	786B/48-52-57	855F/50-52-57	862F/50-52-57	
34 835	792B/48-52-57	862F/49-52-57	862F/49-52-57	
31 855	802B/47-51-58	862F/48-51-58	862F/49-51-58	
28 862	812B/47-51-58	862F/48-51-58	862F/48-51-58	
25 862	820B/47-51-58	862F/48-51-58	862F/48-51-58	
22 862	828B/47-51-58	862F/48-51-58	862F/48-51-58	
19 862	836B/47-51-58	862F/48-51-58	862F/49-51-58	
16 862	844B/47-51-58	862F/48-51-58	862F/49-51-58	
13 862	852B/47-51-58	862F/48-51-58	862F/49-51-58	
10 862	859F/47-51-58	862F/48-51-58	862F/49-51-58	
5 862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0 -5	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-10 862	862F/47-51-58	862F/48-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 18R/B7 ZGHA

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL DATED 10-JUN-2019
737-800		CFM56-7B26	*A* INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	100KG	-10	0	10	
61A	666	622F/35-36-41	663F/41-41-45	677F/41-41-45	672**43-43-47
58A	682	634F/36-37-42	675F/42-42-46	690F/43-43-47	686**44-44-48
55A	699	645F/37-38-43	688F/42-43-47	702F/44-44-48	701**45-45-49
52	717	658F/38-39-45	701F/43-44-49	716F/45-46-50	
49	736	671F/39-41-46	715F/44-46-50	730F/46-47-51	
46	756	685F/39-42-48	730F/45-47-52	745F/47-48-53	
43	775	698F/40-43-49	745F/46-48-53	760F/48-50-54	
40	796	711F/41-44-50	760F/47-49-55	776F/49-51-56	
37	816	723F/42-45-52	774F/48-50-56	792F/50-52-57	
34	835	735F/42-46-53	786F/49-51-57	804F/49-52-57	
31	855	747F/43-47-54	799F/48-51-58	818F/49-51-58	
28	862	754F/43-48-55	807F/48-51-58	826F/48-51-58	
25	862	758F/44-48-55	811F/48-51-58	830F/48-51-58	
22	862	762F/44-48-55	815F/48-51-58	834F/48-51-58	
19	862	765F/45-49-56	819F/48-51-58	838F/49-51-58	
16	862	769F/45-49-56	823F/48-51-58	842F/49-51-58	
13	862	773F/45-49-56	827F/48-51-58	847F/49-51-58	
10	862	776F/46-50-57	832F/48-51-58	851F/49-51-58	
5	862	783F/46-50-57	839F/48-51-58	858F/49-51-58	
0	862	789F/47-51-58	846F/48-51-58	862F/49-51-58	
-5	862	795F/47-51-58	853F/48-51-58	862F/49-51-58	
-10	862	802F/47-51-58	860F/48-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18R/B7 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 36L ZGHA

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT CLIMB	100KG	-10	0	10
C				
61A	666	672*/41-41-45 676**44-45-48	687*/41-41-45 695**52-54-57	691*/41-41-45 700**55-56-60
58A	682	688*/42-43-47 691**45-46-49	703*/43-43-47 711**53-54-58	708*/43-43-47 716**56-57-61
55A	699	704*/44-44-48 705**45-47-50	720*/44-44-48 727**54-55-59	724*/44-44-48 732**56-58-62
52	717	722*/45-46-50 721**46-47-51	737*/46-46-50 743**54-56-60	742*/46-46-50 749**57-59-63
49	736	739F/46-48-52 738**47-48-52	756*/47-48-52 760**55-57-61	761*/47-48-52 767**58-60-63
46	756	754F/48-49-54	776*/49-49-54 778**56-58-62	781*/49-49-54 785**58-61-64
43	775	769F/48-51-55	795*/50-51-56 790**54-56-60	800*/50-51-56 790**55-56-60
40	796	782B/49-52-56 787B/49-52-57	814*/51-52-57 832*/50-52-57	820*/51-52-57 838*/50-52-57
37	816	795B/49-52-57	849*/50-52-57	855*/50-52-57
34	835	806B/48-51-58	862F/49-51-58	862F/49-51-58
31	855	815B/48-51-58	862F/49-51-58	862F/49-51-58
28	862	823B/48-51-58	862F/49-51-58	862F/49-51-58
25	862	832B/48-51-58	862F/49-51-58	862F/49-51-58
22	862	840B/48-51-58	862F/49-51-58	862F/49-51-58
19	862	845F/48-51-58	862F/49-51-58	862F/49-51-58
16	862	849F/48-51-58	862F/49-51-58	862F/49-51-58
13	862	853F/48-51-58	862F/49-51-58	862F/49-51-58
10	862	860F/48-51-58	862F/49-51-58	862F/49-51-58
5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	862	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.20 PERCENT FOR TODA AND 0.20 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 36L 157 3660 0 213 5268 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 36L/B2 ZGHA

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL DATED 10-JUN-2019
737-800		CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10	0	10
61A	666	640F/37-38-42	681F/41-41-45	686*/41-41-45	
			674**44-44-48	681**47-47-51	
58A	682	652F/38-39-44	694F/43-43-47	702*/43-43-47	
			689**45-45-49	696**48-48-52	
55A	699	664F/39-41-45	707F/44-44-48	719*/44-44-48	
			703**46-46-50	711**48-49-52	
52	717	677F/40-42-47	721F/46-46-50	736F/46-46-50	
			719**46-47-51	727**49-50-53	
49	736	691F/41-43-48	735F/47-48-52	751F/47-48-52	
				744**50-51-54	
46	756	706F/42-44-49	750F/48-49-53	766F/49-49-54	
				761**50-51-56	
43	775	720F/43-45-51	766F/49-50-55	782F/50-51-56	
				779**51-52-57	
40	796	733F/44-46-52	781F/50-52-56	798F/51-52-57	
37	816	746F/45-47-54	796F/50-52-57	814F/50-52-57	
34	835	758F/45-48-55	810F/50-52-57	827F/50-52-57	
31	855	771F/46-49-56	823F/49-51-58	841F/49-51-58	
28	862	778F/46-50-57	831F/49-51-58	849F/49-51-58	
25	862	782F/47-50-57	835F/49-51-58	854F/49-51-58	
22	862	786F/47-51-57	839F/49-51-58	858F/49-51-58	
19	862	789F/48-51-58	843F/49-51-58	862F/49-51-58	
16	862	793F/48-51-58	847F/49-51-58	862F/49-51-58	
13	862	797F/48-51-58	852F/49-51-58	862F/49-51-58	
10	862	801F/48-51-58	856F/49-51-58	862F/49-51-58	
5	862	807F/48-51-58	862F/49-51-58	862F/49-51-58	
0	862	814F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	862	820F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	862	827F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.20 PERCENT FOR TODA AND 0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 36L/B2 157 3660 0 213 5268 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 220 FT

RUNWAY 36R ZGHA

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	HUANGHUAJICHANG CS/SOUTHCENTRAL		
737-800		CFM56-7B26		DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE						
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
C	100KG	-10	0	10		
61A	666	673*/41-41-45 696**53-56-59	687*/41-41-45 700**55-56-60	692*/41-41-45 700**55-56-60		
58A	682	689*/42-43-47	704*/43-43-47	708*/43-43-47		
		712**54-57-60	718**56-58-61	718**56-58-61		
55A	699	705*/44-44-48 726**53-56-59	720*/44-44-48 735**58-60-63	725*/44-44-48 735**58-60-63		
52	717	723*/45-46-50 739**52-54-58	738*/46-46-50 754**59-62-65	743*/46-46-50 754**59-62-65		
49	736	741*/46-48-52	757*/47-48-52	762*/47-48-52		
		751**51-53-57	774**61-64-67	774**61-64-67		
46	756	761*/48-49-54 764**50-52-56	777*/49-49-54 790**60-63-67	782*/49-49-54 790**60-63-67		
43	775	777B/49-51-56	796*/50-51-56 790**54-56-60	801*/50-51-56 790**55-56-60		
40	796	782B/49-52-56	815*/51-52-57	821*/51-52-57		
37	816	787B/49-52-57	834*/50-52-57	839*/50-52-57		
34	835	795B/49-52-57	851*/49-52-57	857*/50-52-57		
31	855	806B/48-51-58	862F/49-51-58	862F/49-51-58		
28	862	815B/48-51-58	862F/49-51-58	862F/49-51-58		
25	862	823B/48-51-58	862F/49-51-58	862F/49-51-58		
22	862	831B/48-51-58	862F/49-51-58	862F/49-51-58		
19	862	840B/48-51-58	862F/49-51-58	862F/49-51-58		
16	862	848B/48-51-58	862F/49-51-58	862F/49-51-58		
13	862	856B/48-51-58	862F/49-51-58	862F/49-51-58		
10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58		
5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58		
0	862	862F/48-51-58	862F/49-51-58	862F/49-51-58		
-5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58		
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.19 PERCENT FOR TODA AND 0.19 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
36R	141	3500	0	223	4968	0	164	3360	0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 571 FT

RUNWAY 01

ZGKL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				LIANGJIANGJICHANG GL/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26		61A 659	664*/39-41-44 685*/40-41-44 692*/40-41-44
				664**40-43-46 688**50-53-56 693**53-56-59
			58A 675	678*/40-42-46 701*/41-42-46 708*/41-42-46
				678**42-44-48 704**51-54-57 710**54-57-61
			55A 691	693*/42-44-48 716*/42-44-48 723*/43-44-48
				693**42-45-49 719**52-55-58 726**55-58-61
			52 709	708*/43-45-49 732*/44-45-49 740*/44-45-49
				735**52-55-59 742**56-59-62
			49 727	724*/44-47-51 749*/45-47-51 757*/45-47-51
				752**53-56-60 759**56-60-63
			46 747	741*/45-48-52 767*/47-49-53 775*/47-49-53
				769**54-57-61 778**57-60-64
			43 766	757*/46-49-54 785*/48-50-55 793*/48-50-55
				787**54-58-62 790**56-59-63
			40 787	774*/47-51-56 803*/49-52-57 811*/50-52-57
				790**50-53-58 790**51-53-58
			37 807	789B/48-52-57 818*/49-52-57 826*/49-52-57
			34 826	798B/48-52-57 830*/49-52-57 839*/49-52-57
			31 844	809B/47-52-58 842*/48-52-58 852*/48-52-58
			28 857	819B/47-51-58 851*/48-51-58 861*/48-51-58
			25 858	823*/47-51-58 853*/48-51-58 862F/48-51-58
			22 859	825*/47-51-58 855*/48-51-58 862F/48-51-58
			19 860	827*/47-51-58 858*/48-51-58 862F/48-51-58
			16 860	829*/47-51-58 860*/48-51-58 862F/48-51-58
			13 861	832*/47-51-58 862F/48-51-58 862F/48-51-58
			10 862	834*/47-51-58 862F/48-51-58 862F/48-51-58
			5 862	837*/47-51-58 862F/48-51-58 862F/48-51-58
			0 862	841*/47-51-58 862F/48-51-58 862F/48-51-58
			-5 862	844*/47-51-58 862F/48-51-58 862F/48-51-58
			-10 862	848*/47-51-58 862F/48-51-58 862F/48-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.38 PERCENT FOR TODA AND 0.26 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 23 520 0 39 679 0 49 1087 0
 72 1704 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 571 FT

RUNWAY 19 ZGKL

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	LIANGJIANGJICHANG GL/SOUTHCENTRAL
737-800		CFM56-7B26	DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10	
61A	659	609*/33-35-39 642**45-49-53	614*/34-35-40 648**47-50-54	616*/35-35-40 650**47-50-54	
58A	675	625*/34-36-41 659**47-51-55	630*/36-37-42 665**49-52-56	632*/36-37-42 667**49-52-56	
55A	691	640*/36-38-43 676**49-53-57	646*/37-39-43 682**50-54-58	648*/38-39-44 684**51-54-58	
52	709	657*/37-40-45 691**49-54-58	663*/39-40-45 700**52-55-59	665*/39-40-45 702**52-56-60	
49	727	675*/39-41-46 707**50-54-59	681*/40-42-47 719**53-57-61	683*/41-42-47 721**54-58-62	
46	747	694*/40-43-48 724**50-55-59	700*/42-44-49 739**55-59-64	702*/42-44-49 741**55-60-64	
43	766	712*/42-45-50 741**51-56-60	718*/43-45-51 758**57-61-66	720*/44-46-51 760**57-61-66	
40	787	729*/43-46-52 757**51-56-61	735*/44-47-52 776**58-63-67	737*/45-47-53 779**58-63-68	
37	807	746*/44-48-54 768**51-56-61	752*/46-48-54 790**57-62-67	755*/46-49-54 790**57-62-66	
34	826	763*/45-49-55 779**50-55-60	769*/47-50-56 790**53-57-62	772*/47-50-56 790**52-56-62	
31	844	780*/46-51-57 790**49-54-60	787*/48-51-57 790**49-52-58	789*/48-51-57 790**49-52-58	
28	857	792*/47-51-58	798*/48-51-58	800*/48-51-58	
25	858	792*/47-51-58	798*/48-51-58	801*/48-51-58	
22	859	792*/47-51-58	798*/48-51-58	801*/48-51-58	
19	860	792*/47-51-58	798*/48-51-58	801*/48-51-58	
16	860	792*/47-51-58	798*/48-51-58	800*/48-51-58	
13	861	791*/47-51-58	798*/48-51-58	800*/48-51-58	
10	862	791*/47-51-58	798*/48-51-58	800*/48-51-58	
5	862	790*/47-51-58	797*/48-51-58	800*/48-51-58	
0	862	790*/47-51-58	797*/48-51-58	799*/48-51-58	
-5	862	789*/47-51-58	796*/48-51-58	798*/48-51-58	
-10	862	790**47-52-58 787*/47-51-58 790**47-52-58	795*/48-51-58	797*/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2200 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.26 PERCENT FOR TODA AND 0.38 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

19 1565 31682 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 423 FT

RUNWAY 05

ZGNN

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	WUXUJICHANG NN/SOUTHCENTRAL	
737-800		CFM56-7B26	DATED 10-JUN-2019			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10
61A	662	667*/40-41-45	686*/41-41-45	691*/41-41-45		
		671**44-46-49	692**52-54-57	696**54-56-59		
58A	678	682*/41-42-46	702*/42-42-46	708*/42-42-46		
		686**45-46-50	708**53-55-58	713**56-58-61		
55A	695	697*/43-44-48	718*/44-44-48	724*/44-44-48		
		701**46-47-51	723**54-55-59	729**56-59-62		
52	712	714*/44-46-50	734*/45-46-50	741*/45-46-50		
		716**46-48-52	740**54-56-60	746**57-59-63		
49	731	731*/46-47-51	752*/46-47-51	758*/47-47-51		
		733**47-49-53	757**55-57-61	763**58-60-64		
46	751	749*/47-49-53	771*/48-49-53	778*/48-49-53		
		750**48-50-54	775**56-58-62	782**58-61-64		
43	770	767*/48-50-55	789*/49-51-55	796*/50-51-55		
			790**56-58-62	790**56-58-62		
40	790	778B/48-51-56	808*/51-53-57	815*/51-53-57		
37	811	783B/48-51-57	824*/50-52-57	831*/50-52-57		
34	830	788B/48-52-57	838*/49-52-57	846*/50-52-57		
31	849	797B/48-52-58	852*/49-52-58	860*/49-52-58		
28	860	807B/47-51-58	861*/48-51-58	862F/49-51-58		
25	861	815B/47-51-58	862F/48-51-58	862F/49-51-58		
22	862	823B/47-51-58	862F/48-51-58	862F/49-51-58		
19	862	831B/47-51-58	862F/49-51-58	862F/49-51-58		
16	862	839B/47-51-58	862F/49-51-58	862F/49-51-58		
13	862	844*/47-51-58	862F/49-51-58	862F/49-51-58		
10	862	846*/48-51-58	862F/49-51-58	862F/49-51-58		
5	862	849*/48-51-58	862F/49-51-58	862F/49-51-58		
0	862	852*/48-51-58	862F/49-51-58	862F/49-51-58		
-5	862	854*/48-51-58	862F/49-51-58	862F/49-51-58		
-10	862	857*/48-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05 62 1322 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 423 FT

RUNWAY 05/A1 ZGNN

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	WUXUJICHANG NN/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 662	650F/39-40-43	677*/41-41-45 677**46-47-50	683*/41-41-45 684**49-50-53	
58A 678	662F/40-41-45	693*/42-42-46 692**47-48-51	699*/42-42-46 699**50-51-54	
55A 695	675F/40-42-46	708*/44-44-48 707**48-49-52	715*/44-44-48 714**50-51-55	
52 712	688F/41-43-47	725*/45-46-50 723**48-49-53	731*/45-46-50 730**51-52-56	
49 731	702F/42-44-49	742*/46-47-51	749*/47-47-51	
		739**49-50-54	747**52-53-57	
46 751	716F/43-45-50	760*/48-49-53 757**50-51-55	767*/48-49-53 765**52-54-58	
43 770	731F/44-47-52	777F/49-51-55 774**50-52-56	786*/50-51-55 783**53-55-59	
40 790	744F/45-48-53	793F/51-53-57	804*/51-53-57	
37 811	758F/46-49-55	808F/50-52-57	819*/50-52-57	
34 830	770F/46-50-56	822F/49-52-57	833*/50-52-57	
31 849	782F/47-51-57	835F/49-52-58	847*/49-52-58	
28 860	791F/47-51-58	845F/48-51-58	856*/49-51-58	
25 861	795F/47-51-58	849F/48-51-58	858*/49-51-58	
22 862	799F/47-51-58	851*/48-51-58	860*/49-51-58	
19 862	802F/47-51-58	853*/49-51-58	862*/49-51-58	
16 862	806F/47-51-58	855*/49-51-58	862F/49-51-58	
13 862	810F/47-51-58	856*/49-51-58	862F/49-51-58	
10 862	814F/48-51-58	858*/49-51-58	862F/49-51-58	
5 862	821F/48-51-58	861*/49-51-58	862F/49-51-58	
0 862	827F/48-51-58	862F/49-51-58	862F/49-51-58	
-5 862	834F/48-51-58	862F/49-51-58	862F/49-51-58	
-10 862	841F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

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RUNWAY IS 2900 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05/A1 62 1322 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 423 FT

RUNWAY 05/B3 ZGNN

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	WUXUJICHANG NN/SOUTHCENTRAL DATED 10-JUN-2019
737-800		CFM56-7B26	OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10	0	10
61A	662	639F/37-38-42	673*/41-41-45	680*/41-41-45	
			671**44-45-48	678**47-47-51	
58A	678	650F/38-39-44	689*/42-42-46	696*/42-42-46	
			686**45-45-49	693**48-48-52	
55A	695	663F/39-40-45	704*/44-44-48	712*/44-44-48	
			701**45-46-50	708**48-49-53	
52	712	676F/40-42-46	719F/45-46-50	728*/45-46-50	
			716**46-47-51	724**49-50-54	
49	731	689F/41-43-48	733F/46-47-51	745*/47-47-51	
			732**47-48-52	741**50-51-55	
46	751	704F/42-44-49	749F/48-49-53	764*/48-49-53	
				758**50-52-56	
43	770	718F/43-45-51	764F/49-50-55	780F/50-51-55	
				775**51-53-57	
40	790	731F/44-46-52	779F/49-51-56	796F/51-53-57	
37	811	744F/44-47-53	795F/50-52-57	812F/50-52-57	
34	830	756F/45-48-55	808F/49-52-57	825F/50-52-57	
31	849	768F/46-49-56	821F/49-52-58	839F/49-52-58	
28	860	777F/46-50-57	830F/48-51-58	849F/49-51-58	
25	861	781F/46-50-57	834F/48-51-58	853F/49-51-58	
22	862	784F/47-51-57	838F/48-51-58	855*/49-51-58	
19	862	788F/47-51-58	842F/49-51-58	857*/49-51-58	
16	862	792F/47-51-58	846F/49-51-58	859*/49-51-58	
13	862	796F/47-51-58	851F/49-51-58	861*/49-51-58	
10	862	799F/48-51-58	853*/49-51-58	862F/49-51-58	
5	862	806F/48-51-58	856*/49-51-58	862F/49-51-58	
0	862	812F/48-51-58	859*/49-51-58	862F/49-51-58	
-5	862	819F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	862	826F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05/B3 62 1322 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 423 FT

RUNWAY 23 ZGNN

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	WUXUJICHANG NN/SOUTHCENTRAL DATED 10-JUN-2019
737-800		CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10	
61A	662	682F/40-41-45 673**44-45-48	723F/41-41-45 692**52-54-57	737F/41-41-45 696**54-56-59	
58A	678	695F/42-42-46 688**45-46-49	737F/42-42-46 707**53-55-58	751F/42-42-46 713**56-58-61	
55A	695	708F/43-44-48 702**45-47-50	751F/44-44-48 723**53-55-59	765F/44-44-48 729**56-58-62	
52	712	722F/44-46-50 718**46-48-51	766F/45-46-50 740**54-56-60	780F/45-46-50 746**57-59-63	
49	731	737F/46-47-51 734**47-48-52	781F/46-47-51 757**55-57-61	796F/47-47-51 763**58-60-64	
46	751	752F/47-49-53	798F/48-49-53	813F/48-49-53	
43	770		774**56-58-62	782**58-61-64	
40	790	778B/49-51-56	814F/49-51-55 790**56-58-62	830F/50-51-55 790**56-58-62	
37	811	783B/48-51-57	831F/51-53-57	847F/51-53-57	
34	830	789B/48-52-57	846F/50-52-57	862F/50-52-57	
31	849	798B/48-52-58	859F/49-52-57	862F/50-52-57	
28	860	807B/47-51-58	862F/49-51-58	862F/49-51-58	
25	861	815B/47-51-58	862F/49-51-58	862F/49-51-58	
22	862	823B/47-51-58	862F/49-51-58	862F/49-51-58	
19	862	831B/48-51-58	862F/49-51-58	862F/49-51-58	
16	862	839B/48-51-58	862F/49-51-58	862F/49-51-58	
13	862	847F/48-51-58	862F/49-51-58	862F/49-51-58	
10	862	851F/48-51-58	862F/49-51-58	862F/49-51-58	
5	862	858F/48-51-58	862F/49-51-58	862F/49-51-58	
0	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.02 PERCENT FOR TODA AND 0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

23 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 04

ZGOW

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				CHAOSHAN JICHANG JY/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	670	651F/38-40-44	688*/41-42-45 682**45-47-50	693*/41-42-45 690**48-49-53
58A	686	664F/39-41-45	703*/43-43-47 697**46-47-51	709*/43-43-47 704**49-50-54
55A	702	676F/40-42-46	719*/44-45-49 712**47-48-52	725*/44-45-49 719**50-51-55
52	721	689F/41-43-48	734F/45-46-50 728**47-49-53	743*/46-46-50 736**50-52-56
49	740	703F/42-44-49	749F/47-48-52 745**48-50-54	761*/47-48-52 753**51-53-57
46	760	718F/43-45-51	764F/48-50-54 762**49-51-55	780*/48-50-54 771**52-54-58
43	780	733F/44-47-52	780F/49-52-56	796F/50-52-56 788**52-55-59
40	800	747F/45-48-54	796F/50-52-57	812F/50-52-57
37	820	760F/45-49-55	811F/49-52-57	828F/50-52-57
34	840	773F/46-50-56	825F/49-52-58	844F/49-52-58
31	860	786F/46-51-57	839F/48-51-58	858F/48-51-58
28	862	793F/47-51-58	847F/48-51-58	862F/48-51-58
25	862	796F/47-51-58	851F/48-51-58	862F/48-51-58
22	862	800F/47-51-58	855F/48-51-58	862F/48-51-58
19	862	804F/47-51-58	859F/48-51-58	862F/48-51-58
16	862	808F/47-51-58	862F/48-51-58	862F/48-51-58
13	862	812F/47-51-58	862F/48-51-58	862F/48-51-58
10	862	816F/47-51-58	862F/48-51-58	862F/48-51-58
5	862	822F/47-51-58	862F/48-51-58	862F/48-51-58
0	862	829F/47-51-58	862F/48-51-58	862F/48-51-58
-5	862	836F/47-51-58	862F/48-51-58	862F/48-51-58
-10	862	842F/47-51-58	862F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.36 PERCENT FOR TODA AND -0.36 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 04 105 2440 0 108 2569 0 102 2447 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 04/A2 ZGOW

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	CHAOSHANJICHANG JY/SOUTHCENTRAL DATED 10-JUN-2019
737-800	CFM56-7B26		
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	
C	100KG	-10 0 10	
61A	670	632F/36-37-42	673F/41-42-45 687F/41-42-45
			671**42-42-46 679**44-45-49
58A	686	643F/37-38-43	685F/42-43-47 700F/43-43-47
			694**45-46-50
55A	702	655F/37-39-44	698F/43-44-48 713F/44-45-49
			708**46-47-50
52	721	668F/38-41-46	711F/44-45-50 727F/46-46-50
			724**47-48-51
49	740	681F/39-42-47	726F/45-47-51 741F/47-48-52
			741**47-48-53
46	760	696F/40-43-49	741F/46-48-53 757F/48-50-54
43	780	710F/41-44-50	756F/47-49-54 772F/49-51-55
40	800	723F/42-45-52	771F/48-50-56 788F/50-52-57
37	820	736F/43-46-53	787F/49-52-57 803F/50-52-57
34	840	748F/43-47-54	800F/49-52-58 818F/49-52-58
31	860	760F/44-48-55	814F/48-51-58 832F/48-51-58
28	862	767F/44-49-56	821F/48-51-58 840F/48-51-58
25	862	771F/45-49-56	825F/48-51-58 844F/48-51-58
22	862	774F/45-50-57	829F/48-51-58 848F/48-51-58
19	862	778F/46-50-57	833F/48-51-58 852F/48-51-58
16	862	782F/46-50-57	837F/48-51-58 857F/48-51-58
13	862	786F/46-51-58	841F/48-51-58 861F/48-51-58
10	862	790F/47-51-58	846F/48-51-58 862F/48-51-58
5	862	796F/47-51-58	853F/48-51-58 862F/48-51-58
0	862	803F/47-51-58	860F/48-51-58 862F/48-51-58
-5	862	809F/47-51-58	862F/48-51-58 862F/48-51-58
-10	862	816F/47-51-58	862F/48-51-58 862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2630 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.36 PERCENT FOR TODA AND -0.36 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 04/A2 105 2440 0 108 2569 0 102 2447 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 52 FT

RUNWAY 22

ZGOW

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				CHAOSHAN JICHANG JY/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	670	633*/37-37-42 637**38-39-44	644*/39-39-43 664**46-47-51	646*/39-39-43 673**48-49-53
58A	686	648*/38-39-44 651**39-40-45	660*/40-40-45 678**47-48-51	662*/41-41-45 688**49-50-54
55A	702	663*/39-40-45 665**40-41-46	677*/42-42-46 693**47-48-52	679*/42-42-46 702**50-51-55
52	721	679F/41-42-47	695*/43-44-48 709**48-49-53	697*/44-44-48 718**51-52-56
49	740	693F/42-43-48	714*/45-45-50 725**49-50-54	716*/45-46-50 735**51-53-57
46	760	707F/43-44-50	733*/46-47-52 743**49-51-55	736*/47-47-52 753**52-53-58
43	780	722F/44-45-51	751*/47-49-54 760**50-52-57	755*/48-49-54 770**53-54-59
40	800	737F/44-47-53	768*/49-50-55 776**51-53-58	773*/49-51-56 786**54-56-60
37	820	750F/45-48-54	785*/50-52-57 790**51-53-59	791*/50-52-57
34	840	762F/46-49-55	803*/50-52-58	809*/50-52-58
31	860	775F/46-50-57	821*/49-51-58	827*/49-51-58
28	862	782F/47-50-57	828*/49-51-58	834*/49-51-58
25	862	786F/47-51-57	829*/49-51-58	835*/49-51-58
22	862	789F/48-51-58	830*/49-51-58	835*/49-51-58
19	862	793F/48-51-58	831*/49-51-58	836*/49-51-58
16	862	797F/48-51-58	831*/49-51-58	835*/49-51-58
13	862	801F/48-51-58	832*/49-51-58	835*/49-51-58
10	862	804F/48-51-58	832*/49-51-58	835*/49-51-58
5	862	811F/48-51-58	833*/49-51-58	835*/49-51-58
0	862	816*/48-51-58	832*/49-51-58	835*/49-51-58
-5	862	816*/48-51-58	832*/49-51-58	834*/49-51-58
-10	862	816*/48-51-58	831*/49-51-58	833*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1920 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.36 PERCENT FOR TODA AND 0.36 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22 328 6098 0 1283 20287 0 1299 20629 0
 121 2922 0

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 23 FT

RUNWAY 05

ZGSD

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	JINWANJICHANG ZH/SOUTHCENTRAL DATED 10-JUN-2019
737-800	CFM56-7B26	OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10
61A	670	673*/41-42-45	686*/42-42-45	690*/42-42-45	
		704**54-57-60	705**55-57-60	705**55-57-60	
58A	687	689*/42-43-47	703*/43-43-47	705*/43-43-47	
		718**54-56-60	722**56-59-62	722**56-59-62	
55A	703	706*/44-45-49	706*/44-45-49	706*/45-45-49	
		730**53-55-59	740**58-60-64	740**58-60-64	
52	721	723*/45-46-50	723*/46-46-50	723*/46-46-50	
		742**52-54-58	759**59-62-66	759**60-62-66	
49	740	743*/46-48-52	745*/47-48-52	745*/47-48-52	
		755**51-53-57	779**61-64-68	779**61-64-68	
46	760	763*/48-50-54	767*/49-50-54	767*/49-50-54	
		767**50-52-56	790**58-61-65	790**58-61-65	
43	780	779B/49-51-56	788*/50-52-56	788*/50-52-56	
			790**53-55-59	790**53-55-59	
40	801	784B/49-52-57	808*/50-52-57	808*/51-52-57	
37	821	790B/49-52-57	829*/50-52-57	829*/50-52-57	
34	840	800B/48-52-58	849*/49-52-58	850*/49-52-58	
31	860	811B/47-51-58	862F/48-51-58	862F/49-51-58	
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	852B/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	860B/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 970 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05 581 12650 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 23 FT

RUNWAY 05/G ZGSD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF JINWANJICHANG
 737-800 CFM56-7B26 ZH/SOUTHCENTRAL
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	670	672*/41-42-45 703**54-57-60	685*/42-42-45 705**55-57-60	689*/42-42-45 705**55-57-60	
58A	687	689*/42-43-47 718**54-56-60	702*/43-43-47 722**56-59-62	705*/43-43-47 722**56-59-62	
55A	703	705*/44-45-49 730**53-55-59	706*/44-45-49 740**58-60-64	706*/45-45-49 740**58-60-64	
52	721	723*/45-46-50 742**52-54-58	723*/46-46-50 759**59-62-66	723*/46-46-50 759**60-62-66	
49	740	742*/46-48-52 755**51-53-57	745*/47-48-52 779**61-64-68	745*/47-48-52 779**61-64-68	
46	760	762*/48-50-54 767**50-52-56	767*/49-50-54 790**58-61-65	767*/49-50-54 790**58-61-65	
43	780	779B/49-51-56	788*/50-52-56 790**53-55-59	788*/50-52-56 790**53-55-59	
40	801	784B/49-52-57	808*/50-52-57	808*/51-52-57	
37	821	790B/49-52-57	829*/50-52-57	829*/50-52-57	
34	840	800B/48-52-58	849*/49-52-58	850*/49-52-58	
31	860	811B/47-51-58	862F/48-51-58	862F/49-51-58	
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	852B/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	860B/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 970 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3860 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05/G 581 12650 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 23 FT

RUNWAY 23

ZGSD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				JINWANJICHANG ZH/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26				
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 670	613*/34-35-40 635**45-48-52	629*/37-37-41 652**48-50-54	635*/38-38-42 658**49-51-55	
58A 687	628*/35-36-42 650**46-50-54	644*/38-38-43 668**49-52-56	650*/39-39-44 674**50-53-57	
55A 703	643*/36-38-43 666**48-51-56	659*/39-40-45 684**51-54-58	665*/40-41-45 690**52-54-58	
52 721	659*/38-40-45 683**49-53-58	676*/41-41-46 701**52-55-60	682*/42-42-47 708**53-56-60	
49 740	676*/39-41-47 700**51-55-60	694*/42-43-48 719**54-57-62	700*/43-44-49 726**55-58-62	
46 760	694*/41-43-49 719**52-57-62	712*/44-45-50 738**55-59-64	718*/44-45-51 745**56-60-64	
43 780	712*/42-44-50 736**54-58-63	730*/45-46-52 757**57-61-65	736*/46-47-52 763**58-61-66	
40 801	728*/43-46-52 750**53-57-63	747*/46-48-54 774**58-62-67	753*/47-48-54 781**59-63-68	
37 821	745*/44-47-54 763**52-56-62	764*/47-49-55 790**58-63-68	770*/48-50-56 790**56-59-64	
34 840	762*/45-49-55 776**51-55-61	781*/48-51-57 790**51-54-60	788*/49-51-57 790**50-52-58	
31 860	780*/46-50-57 789**50-54-61	799*/48-51-58	806*/49-51-58	
28 862	786*/47-51-58 790**48-52-59	806*/48-51-58	812*/49-51-58	
25 862	787*/47-51-58 790**48-52-59	807*/48-51-58	813*/49-51-58	
22 862	788*/47-51-58 790**48-52-58	808*/48-51-58	814*/49-51-58	
19 862	789*/47-51-58 790**48-52-58	808*/48-51-58	815*/49-51-58	
16 862	789*/47-51-58	809*/48-51-58	816*/49-51-58	
13 862	790*/47-51-58	810*/48-51-58	816*/49-51-58	
10 862	791*/47-51-58	810*/48-51-58	817*/49-51-58	
5 862	791*/47-51-58	811*/48-51-58	818*/49-51-58	
0 862	792*/47-51-58	812*/48-51-58	819*/49-51-58	
-5 862	792*/47-51-58	813*/49-51-58	820*/49-51-58	
-10 862	793*/47-51-58	813*/49-51-58	820*/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1590 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23 840 14477 0 1152 13661 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 23 FT

RUNWAY 23/B ZGSD

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			JINWANJICHANG ZH/SOUTHCENTRAL DATED 10-JUN-2019	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
OAT	CLIMB	C 100KG	-10	0	10	
61A	670	612*/33-35-40	628*/36-37-41	634*/37-37-42		
		634**45-48-52	651**48-50-54	657**49-51-55		
58A	687	627*/35-36-41	643*/38-38-43	649*/39-39-44		
		649**46-50-54	667**49-52-56	673**50-53-57		
55A	703	642*/36-38-43	658*/39-40-45	664*/40-40-45		
		664**48-51-56	683**51-53-58	689**52-54-58		
52	721	658*/38-39-45	675*/41-41-46	681*/42-42-47		
		681**49-53-58	700**52-55-60	706**53-56-60		
49	740	675*/39-41-47	693*/42-43-48	699*/43-44-49		
		699**51-55-60	718**54-57-61	725**55-58-62		
46	760	693*/41-43-48	711*/43-45-50	717*/44-45-51		
		717**52-57-61	737**55-59-63	744**56-60-64		
43	780	710*/42-44-50	729*/45-46-52	735*/46-47-52		
		735**53-58-63	755**57-61-65	762**58-61-66		
40	801	727*/43-46-52	746*/46-48-53	752*/47-48-54		
		749**53-58-63	773**58-62-67	780**59-63-68		
37	821	744*/44-47-53	763*/47-49-55	769*/48-50-56		
		763**52-56-62	790**59-64-69	790**56-60-65		
34	840	761*/45-49-55	780*/48-51-57	787*/49-51-57		
		775**51-55-61	790**52-55-61	790**50-53-58		
31	860	778*/46-50-57	798*/48-51-58	804*/49-51-58		
		788**50-54-61				
28	862	785*/47-51-57	805*/48-51-58	811*/49-51-58		
		790**48-53-59				
25	862	786*/47-51-57	806*/48-51-58	812*/49-51-58		
		790**48-52-59				
22	862	787*/47-51-58	806*/48-51-58	813*/49-51-58		
		790**48-52-59				
19	862	787*/47-51-58	807*/48-51-58	814*/49-51-58		
		790**48-52-59				
16	862	788*/47-51-58	808*/48-51-58	814*/49-51-58		
		790**48-52-58				
13	862	789*/47-51-58	808*/48-51-58	815*/49-51-58		
		790**48-52-58				
10	862	789*/47-51-58	809*/48-51-58	816*/49-51-58		
5	862	790*/47-51-58	810*/48-51-58	817*/49-51-58		
0	862	791*/47-51-58	811*/48-51-58	818*/49-51-58		
-5	862	791*/47-51-58	811*/49-51-58	818*/49-51-58		
-10	862	791*/47-51-58	812*/49-51-58	819*/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1590 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3860 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY

RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

23/B 840 14477 0 1152 13661 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 144 FT

RUNWAY 16 ZGZJ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF
ZHANJIAGJICHANG
ZJ/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	668	608F/33-34-39	653F/39-40-44	669F/41-41-45
58A	684	619F/34-35-41	664F/40-41-45	681F/43-43-46
55A	701	629F/35-36-42	676F/41-42-46	693F/43-44-48
52	718	640F/35-37-43	689F/42-43-48	705F/44-45-49
49	737	652F/36-38-45	702F/43-44-49	718F/45-46-50
46	757	665F/37-40-46	714F/44-45-50	731F/46-47-52
43	777	677F/38-41-47	727F/44-46-52	744F/47-48-53
40	798	690F/39-42-49	740F/45-47-53	758F/47-49-54
37	818	703F/40-43-50	754F/46-48-54	771F/48-50-56
34	837	714F/40-44-51	766F/47-49-55	784F/49-51-57
31	857	726F/41-45-52	778F/47-50-57	797F/49-51-58
28	862	733F/41-45-53	786F/48-51-57	804F/49-51-58
25	862	737F/42-46-53	790F/48-51-58	808F/49-51-58
22	862	740F/42-46-54	794F/48-51-58	812F/49-51-58
19	862	744F/42-46-54	798F/48-51-58	816F/49-51-58
16	862	747F/43-47-54	801F/48-51-58	820F/49-51-58
13	862	751F/43-47-55	805F/48-51-58	824F/49-51-58
10	862	755F/44-47-55	809F/48-51-58	829F/49-51-58
5	862	761F/44-48-55	816F/48-51-58	836F/49-51-58
0	862	767F/45-49-56	823F/48-51-58	843F/49-51-58
-5	862	773F/46-49-57	830F/48-51-58	850F/49-51-58
-10	862	780F/46-50-57	837F/49-51-58	857F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 230 M OF CLEARWAY AND 60 M OF STOPWAY
RUNWAY SLOPES ARE -0.12 PERCENT FOR TODA AND -0.12 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
16 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 144 FT

RUNWAY 34 ZGZJ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF ZHANJIANG JICHANG
 737-800 CFM56-7B26 ZJ/SOUTHCENTRAL
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	668	605F/33-34-39	646*/39-39-43	656*/40-40-44
58A	684	616F/34-35-40	659*/40-40-45	670*/41-41-45
55A	701	626F/34-36-42	673F/41-41-46	684*/43-43-47
52	718	637F/35-37-43	685F/42-43-47	699*/44-44-48
49	737	649F/36-38-44	698F/43-44-49	714F/45-45-50
46	757	662F/37-39-46	711F/44-45-50	728F/46-46-51
43	777	674F/38-40-47	724F/44-46-51	741F/46-48-53
40	798	687F/39-41-48	737F/45-47-53	754F/47-49-54
37	818	700F/40-42-50	750F/46-48-54	768F/48-50-55
34	837	712F/40-43-51	762F/47-49-55	780F/49-51-57
31	857	723F/41-44-52	775F/47-50-56	793F/49-51-58
28	862	730F/41-45-53	782F/48-50-57	801F/49-51-58
25	862	734F/42-45-53	786F/48-51-57	805F/49-51-58
22	862	737F/42-46-53	790F/49-51-58	809F/49-51-58
19	862	741F/42-46-54	794F/49-51-58	813F/49-51-58
16	862	744F/43-46-54	798F/49-51-58	817F/49-51-58
13	862	748F/43-47-54	802F/49-51-58	821F/49-51-58
10	862	751F/44-47-55	806F/49-51-58	825F/49-51-58
5	862	758F/44-48-55	813F/49-51-58	830*/49-51-58
0	862	764F/45-48-56	819F/49-51-58	833*/49-51-58
-5	862	770F/46-49-56	826F/49-51-58	837*/49-51-58
-10	862	776F/46-50-57	829*/49-51-58	840*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 150 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.12 PERCENT FOR TODA AND 0.12 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 34 43 750 0 197 4540 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 12L ZHCC

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				XINZHENG JICHANG ZZ/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26		61A 660	723F/40-41-44 765F/41-41-44 778F/41-41-44
				691**52-54-57 694**54-56-59 694**54-56-59
			58A 677	737F/41-42-46 780F/42-42-46 794F/42-42-46
				707**52-55-58 711**55-58-61 711**55-58-61
			55A 693	752F/43-44-48 794F/43-44-48 810F/44-44-48
				721**52-55-58 729**57-59-63 729**57-59-63
			52 710	766F/44-45-49 810F/45-45-49 825F/45-45-49
				733**51-54-58 747**58-61-64 747**58-61-64
			49 729	780F/45-47-51 826F/46-47-51 842F/46-47-51
				745**50-53-57 767**60-63-66 767**60-63-66
			46 749	782B/47-49-53 841F/47-49-53 857F/48-49-53
				758**49-52-56 785**60-63-67 788**62-65-69
			43 768	773B/48-51-55 856F/49-51-55 862F/49-51-55
				770**48-51-55 790**56-59-63 790**56-59-63
			40 788	776B/48-51-56 862F/50-52-57 862F/51-52-57
				790**51-53-57 790**51-53-57 790**51-53-57
37	809	781B/48-51-56	862F/50-52-57	862F/50-52-57
34	828	787B/48-52-57	862F/49-52-57	862F/50-52-57
31	846	794B/48-52-58	862F/49-52-58	862F/49-52-58
28	859	803B/47-51-58	862F/48-51-58	862F/49-51-58
25	860	811B/47-51-58	862F/48-51-58	862F/49-51-58
22	860	819B/47-51-58	862F/48-51-58	862F/49-51-58
19	861	827B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	835B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	843B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	852B/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF

75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.17 PERCENT FOR TODA AND -0.17 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 12L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 12L/D2 ZHCC

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	XINZHENG JICHANG ZZ/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10	
61A 660	694F/40-41-44	735F/41-41-44	749F/41-41-44	
	678**46-48-51	694**54-56-59	694**54-56-59	
58A 677	707F/41-42-46	749F/42-42-46	763F/42-42-46	
	693**47-49-52	711**55-57-61	711**55-58-61	
55A 693	721F/43-44-48	763F/43-44-48	778F/44-44-48	
	708**47-49-53	727**56-58-62	729**57-59-63	
52 710	735F/44-45-49	778F/45-45-49	793F/45-45-49	
	723**48-50-54	743**56-59-62	747**58-61-64	
49 729	750F/45-47-51	794F/46-47-51	809F/46-47-51	
	740**49-51-55	761**57-60-63	766**60-63-66	
46 749	765F/47-49-53	811F/47-49-53	826F/48-49-53	
	758**49-52-56	779**57-60-64	785**60-63-67	
43 768	773B/48-51-55	827F/49-51-55	843F/49-51-55	
	770**48-51-55	790**56-59-63	790**56-59-63	
40 788	776B/48-51-56	843F/50-52-57	860F/51-52-57	
		790**51-53-57	790**51-53-57	
37 809	781B/48-51-56	858F/50-52-57	862F/50-52-57	
34 828	787B/48-52-57	862F/49-52-57	862F/50-52-57	
31 846	794B/48-52-58	862F/49-52-58	862F/49-52-58	
28 859	803B/47-51-58	862F/48-51-58	862F/49-51-58	
25 860	811B/47-51-58	862F/48-51-58	862F/49-51-58	
22 860	819B/47-51-58	862F/48-51-58	862F/49-51-58	
19 861	827B/47-51-58	862F/48-51-58	862F/49-51-58	
16 862	835B/47-51-58	862F/48-51-58	862F/49-51-58	
13 862	843B/47-51-58	862F/48-51-58	862F/49-51-58	
10 862	852B/47-51-58	862F/48-51-58	862F/49-51-58	
5 862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0 862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-5 862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-10 862	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3300 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.17 PERCENT FOR TODA AND -0.17 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

12L/D2

NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 12R ZHCC

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	XINZHENG JICHANG ZZ/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 660	675*/40-41-44 680**47-48-52	693*/41-41-44 694**54-56-59	699*/41-41-44 694**54-56-59
58A 677	690*/41-42-46 694**47-49-53	709*/42-42-46 711**55-58-61	715*/42-42-46 711**55-58-61
55A 693	706*/43-44-48 709**48-50-54	725*/43-44-48 729**57-59-63	732*/44-44-48 729**57-59-63
52 710	722*/44-45-49 725**49-51-55	742*/45-45-49 747**58-61-64	748*/45-45-49 747**58-61-64
49 729	739*/45-47-51 742**49-52-56	759*/46-47-51 764**58-61-65	766*/46-47-51 767**60-63-66
46 749	757*/47-49-53 758**49-52-56	778*/48-49-53 783**59-62-66	785*/48-49-53 788**62-65-69
43 768	773B/48-51-55 770**49-51-55	797*/49-51-55 790**56-59-63	804*/49-51-55 790**56-59-63
40 788	776B/48-51-56	815*/50-52-57 790**51-53-57	823*/51-52-57 790**51-53-57
37 809	782B/48-51-57	831*/50-52-57	839*/50-52-57
34 828	787B/48-52-57	845*/49-52-57	853*/50-52-57
31 846	794B/48-52-58	858*/49-52-58	862F/49-52-58
28 859	804B/47-51-58	862F/48-51-58	862F/49-51-58
25 860	812B/47-51-58	862F/48-51-58	862F/49-51-58
22 860	820B/47-51-58	862F/48-51-58	862F/49-51-58
19 861	828B/47-51-58	862F/48-51-58	862F/49-51-58
16 862	836B/47-51-58	862F/48-51-58	862F/49-51-58
13 862	844B/47-51-58	862F/49-51-58	862F/49-51-58
10 862	853B/47-51-58	862F/49-51-58	862F/49-51-58
5 862	856*/47-51-58	862F/49-51-58	862F/49-51-58
0 862	859*/48-51-58	862F/49-51-58	862F/49-51-58
-5 862	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10 862	862F/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.09 PERCENT FOR TODA AND -0.09 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 12R 46 960 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 30L ZHCC

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			XINZHENG JICHANG ZZ/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10
61A	660	659*/40-41-44	679*/41-41-44	685*/41-41-44	
		664**45-47-51	689**52-53-56	694**54-56-59	
58A	677	674*/41-42-46	695*/42-42-46	701*/42-42-46	
		679**48-50-53	705**52-54-57	711**56-58-61	
55A	693	689*/42-43-47	711*/44-44-48	717*/44-44-48	
		694**49-51-55	720**53-55-58	728**57-59-62	
52	710	705*/44-45-49	727*/45-45-49	734*/45-45-49	
		709**49-52-56	737**54-56-59	745**58-60-63	
49	729	722*/45-46-51	745*/46-47-51	751*/47-47-51	
		726**50-52-56	754**56-58-61	763**58-61-64	
46	749	740*/46-48-52	764*/48-49-53	770*/48-49-53	
		743**50-53-57	772**57-59-63	782**59-61-65	
43	768	758*/47-50-54	782*/49-51-55	789*/50-51-55	
		760**49-52-57	789**56-59-63	790**56-59-63	
40	788	776*/49-51-56	801*/51-52-57	808*/51-52-57	
			790**51-53-57	790**51-53-57	
37	809	783B/48-51-57	816*/50-52-57	824*/50-52-57	
34	828	788B/48-52-57	830*/50-52-57	838*/50-52-57	
31	846	796B/48-52-58	844*/49-52-58	852*/49-52-58	
28	859	805B/48-51-58	853*/49-51-58	861*/49-51-58	
25	860	813B/48-51-58	855*/49-51-58	862F/49-51-58	
22	860	821B/48-51-58	857*/49-51-58	862F/49-51-58	
19	861	830B/48-51-58	859*/49-51-58	862F/49-51-58	
16	862	834*/48-51-58	860*/49-51-58	862F/49-51-58	
13	862	836*/48-51-58	862F/49-51-58	862F/49-51-58	
10	862	838*/48-51-58	862F/49-51-58	862F/49-51-58	
5	862	841*/48-51-58	862F/49-51-58	862F/49-51-58	
0	862	844*/48-51-58	862F/49-51-58	862F/49-51-58	
-5	862	846*/48-51-58	862F/49-51-58	862F/49-51-58	
-10	862	849*/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.09 PERCENT FOR TODA AND 0.09 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 30L 62 1010 0 13 270 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 30R ZHCC

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				XINZHENG JICHANG ZZ/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10 0 10	
61A	660	662*/40-41-44	679*/41-41-44	684*/41-41-44
		674**51-53-57	694**54-56-59	694**54-56-59
58A	677	677*/42-42-46	695*/42-42-46	700*/42-42-46
		690**52-55-58	711**56-58-61	711**56-58-61
55A	693	693*/43-44-48	711*/44-44-48	716*/44-44-48
		705**53-55-59	729**57-59-63	729**57-59-63
52	710	710*/44-45-49	728*/45-45-49	734*/45-45-49
		721**52-55-59	746**58-61-64	747**59-61-64
49	729	727*/46-47-51	746*/47-47-51	752*/47-47-51
		737**52-55-59	763**59-62-65	767**60-63-66
46	749	746*/47-49-53	765*/48-49-53	771*/48-49-53
		753**51-53-57	782**59-62-65	788**62-65-69
43	768	764*/48-50-55	784*/49-51-55	790*/50-51-55
		767**49-52-56	790**56-59-63	790**57-59-63
40	788	777B/49-51-56	803*/51-52-57	809*/51-52-57
			790**51-53-57	790**52-53-57
37	809	783B/49-51-57	820*/50-52-57	827*/51-52-57
34	828	788B/49-52-57	835*/50-52-57	842*/50-52-57
31	846	796B/48-52-58	850*/49-52-58	858*/49-52-58
28	859	806B/48-51-58	861*/49-51-58	862F/49-51-58
25	860	814B/48-51-58	862F/49-51-58	862F/49-51-58
22	860	822B/48-51-58	862F/49-51-58	862F/49-51-58
19	861	830B/48-51-58	862F/49-51-58	862F/49-51-58
16	862	839B/48-51-58	862F/49-51-58	862F/49-51-58
13	862	846*/48-51-58	862F/49-51-58	862F/49-51-58
10	862	847*/48-51-58	862F/49-51-58	862F/49-51-58
5	862	849*/48-51-58	862F/49-51-58	862F/49-51-58
0	862	852*/48-51-58	862F/49-51-58	862F/49-51-58
-5	862	854*/48-51-58	862F/49-51-58	862F/49-51-58
-10	862	855*/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.17 PERCENT FOR TODA AND 0.17 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 30R 85 1520 0 69 1200 0 16 290 0
 95 1670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 499 FT

RUNWAY 30R/D11 ZHCC

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			XINZHENG JICHANG ZZ/SOUTHCENTRAL			
737-800 CFM56-7B26		DATED 10-JUN-2019						
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
C	100KG	-10	0	10				
61A	660	654*/39-40-44	673*/41-41-44	678*/41-41-44				
		662**45-47-51	687**53-55-58	694**54-56-59				
58A	677	669*/41-41-45	688*/42-42-46	694*/42-42-46				
		677**47-49-53	702**54-56-59	710**56-57-61				
55A	693	684*/42-43-47	704*/44-44-48	710*/44-44-48				
		692**48-50-54	718**54-56-60	726**57-59-62				
52	710	700*/43-44-49	721*/45-45-49	727*/45-45-49				
		707**49-51-55	734**55-57-61	743**58-60-63				
49	729	717*/44-46-50	739*/47-47-51	745*/47-47-51				
		724**50-52-56	752**56-58-62	760**58-61-64				
46	749	736*/46-48-52	758*/48-49-53	764*/48-49-53				
		741**50-53-57	770**57-59-63	779**59-61-65				
43	768	754*/47-49-54	776*/49-51-55	783*/50-51-55				
		758**50-52-57	787**58-61-65	790**57-59-63				
40	788	772*/48-51-55	795*/51-52-57	802*/51-52-57				
		774**49-52-57	790**51-53-57	790**52-53-57				
37	809	783B/49-51-57	812*/50-52-57	818*/51-52-57				
34	828	788B/49-52-57	826*/50-52-57	834*/50-52-57				
31	846	796B/48-52-58	841*/49-52-58	848*/49-52-58				
28	859	806B/48-51-58	851*/49-51-58	859*/49-51-58				
25	860	814B/48-51-58	853*/49-51-58	860*/49-51-58				
22	860	822B/48-51-58	854*/49-51-58	862F/49-51-58				
19	861	830*/48-51-58	856*/49-51-58	862F/49-51-58				
16	862	833*/48-51-58	857*/49-51-58	862F/49-51-58				
13	862	834*/48-51-58	859*/49-51-58	862F/49-51-58				
10	862	836*/48-51-58	860*/49-51-58	862F/49-51-58				
5	862	839*/48-51-58	862F/49-51-58	862F/49-51-58				
0	862	841*/48-51-58	862F/49-51-58	862F/49-51-58				
-5	862	843*/48-51-58	862F/49-51-58	862F/49-51-58				
-10	862	845*/48-51-58	862F/49-51-58	862F/49-51-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3300 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.17 PERCENT FOR TODA AND 0.17 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 30R/D11 85 1520 0 69 1200 0 16 290 0
 95 1670 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 04L ZHHH

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	TIANHEJICHANG WH/SOUTHCENTRAL
737-800		CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		DATED 10-JUN-2019
OAT	CLIMB	100KG	-10	0	10	
61A	668	676*/41-42-45	694*/42-42-45	700*/42-42-45		
		682**48-50-53	703**55-57-60	703**55-57-60		
58A	685	691*/42-43-47	710*/43-43-47	716*/43-43-47		
		696**49-51-55	720**56-58-62	720**57-58-62		
55A	701	707*/44-45-48	726*/45-45-48	732*/45-45-48		
		711**50-53-56	737**58-60-63	737**58-60-63		
52	719	724*/45-46-50	744*/46-46-50	750*/46-46-50		
		728**51-53-57	754**58-61-64	757**60-62-65		
49	738	741*/46-48-52	762*/47-48-52	768*/48-48-52		
		745**51-54-58	772**59-61-65	777**61-64-67		
46	758	760*/48-50-54	781*/49-50-54	787*/49-50-54		
		762**51-53-57	790**59-62-65	790**59-62-65		
43	778	778B/49-51-56	799*/50-51-56	806*/50-51-56		
			790**54-56-60	790**54-56-60		
40	798	783B/49-52-57	817*/51-52-57	824*/51-52-57		
37	819	789B/49-52-57	832*/50-52-57	840*/50-52-57		
34	838	798B/48-52-57	846*/49-52-57	854*/50-52-57		
31	858	809B/48-51-58	861*/49-51-58	862F/49-51-58		
28	862	818B/48-51-58	862F/49-51-58	862F/49-51-58		
25	862	827B/48-51-58	862F/49-51-58	862F/49-51-58		
22	862	835B/48-51-58	862F/49-51-58	862F/49-51-58		
19	862	843B/48-51-58	862F/49-51-58	862F/49-51-58		
16	862	849*/48-51-58	862F/49-51-58	862F/49-51-58		
13	862	851*/48-51-58	862F/49-51-58	862F/49-51-58		
10	862	853*/48-51-58	862F/49-51-58	862F/49-51-58		
5	862	856*/48-51-58	862F/49-51-58	862F/49-51-58		
0	862	859*/48-51-58	862F/49-51-58	862F/49-51-58		
-5	862	861*/48-51-58	862F/49-51-58	862F/49-51-58		
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 70 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.19 PERCENT FOR TODA AND 0.19 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 04L 7 225 0 16 380 0 49 950 0
 52 1790 0 138 3890 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 04R ZHHH

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

TIANHEJICHANG

WH/SOUTHCENTRAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	668	730F/41-42-45	770F/42-42-45	783F/42-42-45	
		699**52-55-58	703**55-57-60	703**55-57-60	
58A	685	744F/42-43-47	786F/43-43-47	798F/43-43-47	
		714**53-55-59	720**56-58-62	720**56-58-62	
55A	701	758F/43-45-48	801F/44-45-48	814F/45-45-48	
		729**53-55-59	737**58-60-63	737**58-60-63	
52	719	774F/45-46-50	818F/46-46-50	831F/46-46-50	
		740**52-54-58	757**59-62-65	757**59-62-65	
49	738	787F/46-48-52	833F/47-48-52	849F/47-48-52	
		753**51-53-57	777**61-64-67	777**61-64-67	
46	758	785B/48-50-54	848F/48-50-54	862F/49-50-54	
		765**50-52-56	790**59-62-65	790**59-62-65	
43	778	777B/49-51-56	862F/50-51-56	862F/50-51-56	
			790**53-56-60	790**54-56-60	
40	798	783B/49-52-56	862F/50-52-57	862F/51-52-57	
37	819	788B/49-52-57	862F/50-52-57	862F/50-52-57	
34	838	797B/48-52-57	862F/49-52-57	862F/49-52-57	
31	858	807B/48-51-58	862F/49-51-58	862F/49-51-58	
28	862	817B/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	825B/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	833B/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	841B/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	849B/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	857B/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
04R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 04R/E3 ZHHH

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

TIANHEJICHANG
WH/SOUTHCENTRAL
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	668	709F/41-42-45 689**48-50-53	750F/42-42-45 703**55-57-60	763F/42-42-45 703**55-57-60
58A	685	722F/42-43-47 704**49-51-54	764F/43-43-47 720**56-58-62	778F/43-43-47 720**56-58-62
55A	701	736F/43-45-48 719**49-52-55	778F/44-45-48 737**58-60-63	793F/45-45-48 737**58-60-63
52	719	751F/45-46-50 736**50-52-56	794F/46-46-50 755**58-61-64	809F/46-46-50 757**59-62-65
49	738	766F/46-48-52 753**51-53-57	810F/47-48-52 772**59-62-65	826F/47-48-52 777**61-64-67
46	758	781F/48-50-54 765**50-52-56	828F/48-50-54 790**59-62-65	843F/49-50-54 790**59-62-65
43	778	777B/49-51-56	843F/50-51-56 790**53-56-60	859F/50-51-56 790**54-56-60
40	798	783B/49-52-56	859F/50-52-57	862F/51-52-57
37	819	788B/49-52-57	862F/50-52-57	862F/50-52-57
34	838	797B/48-52-57	862F/49-52-57	862F/49-52-57
31	858	807B/48-51-58	862F/49-51-58	862F/49-51-58
28	862	817B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	825B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	833B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	841B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	849B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	857B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3380 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
04R/E3 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 22L ZHHH

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

TIANHEJICHANG

WH/SOUTHCENTRAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	668	653*/39-40-44	673*/42-42-45	680*/42-42-45	
		662**49-51-55	686**52-55-58	694**54-56-59	
58A	685	668*/40-41-45	689*/43-43-47	695*/43-43-47	
		677**49-52-56	702**54-56-60	710**55-57-60	
55A	701	683*/41-43-47	704*/44-45-48	711*/45-45-48	
		692**49-52-56	717**55-58-61	725**56-59-62	
52	719	700*/43-44-49	721*/46-46-50	728*/46-46-50	
		708**49-52-56	734**56-59-63	743**58-60-64	
49	738	717*/44-46-50	739*/47-48-52	747*/47-48-52	
		725**51-54-58	751**56-58-62	760**58-61-64	
46	758	735*/45-47-52	758*/48-50-54	766*/49-50-54	
		742**52-56-60	770**56-59-63	779**59-61-65	
43	778	753*/46-49-54	777*/50-51-56	784*/50-51-56	
		758**51-55-59	787**58-61-65	790**54-56-60	
40	798	771*/48-50-56	796*/50-52-57	803*/51-52-57	
		774**50-53-58			
37	819	788B/49-52-57	812*/50-52-57	819*/50-52-57	
34	838	797B/48-52-57	827*/49-52-57	834*/49-52-57	
31	858	807B/48-51-58	842*/49-51-58	850*/49-51-58	
28	862	817B/47-51-58	849*/48-51-58	857*/49-51-58	
25	862	825B/47-51-58	851*/48-51-58	859*/49-51-58	
22	862	828*/47-51-58	853*/48-51-58	861*/49-51-58	
19	862	829*/47-51-58	854*/48-51-58	862F/49-51-58	
16	862	831*/47-51-58	856*/48-51-58	862F/49-51-58	
13	862	832*/47-51-58	857*/48-51-58	862F/49-51-58	
10	862	834*/47-51-58	859*/48-51-58	862F/49-51-58	
5	862	836*/47-51-58	861*/48-51-58	862F/49-51-58	
0	862	839*/47-51-58	862F/49-51-58	862F/49-51-58	
-5	862	841*/47-51-58	862F/49-51-58	862F/49-51-58	
-10	862	843*/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	IS	3600 M LONG WITH	0 M OF CLEARWAY AND	0 M OF STOPWAY
		RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND	0.00 PERCENT FOR ASDA	
		LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA	OBS FROM LO-FT/M	
22L	HT	DIST	OFFSET	HT DIST OFFSET
22L	121	2280	0	121 2660 0 118 1490 0
	121	2039	0	121 2469 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 22L/E14 ZHHH

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				TIANHEJICHANG WH/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT C	100KG	-10	0	10
61A	668	646*/38-39-43	667*/41-41-45	673*/42-42-45
		653**45-48-52	677**51-53-57	686**53-54-58
58A	685	661*/39-40-45	682*/43-43-47	689*/43-43-47
		667**46-49-53	693**53-55-59	701**54-56-59
55A	701	675*/40-42-46	697*/44-44-48	705*/45-45-48
		682**47-50-54	708**53-56-60	716**55-57-61
52	719	692*/42-43-48	714*/45-46-50	722*/46-46-50
		698**48-51-55	724**54-56-60	733**56-59-63
49	738	709*/43-45-50	732*/46-47-52	739*/47-48-52
		715**49-52-57	742**54-57-61	751**56-59-63
46	758	726*/44-46-51	750*/48-49-53	758*/49-50-54
		731**50-54-59	760**55-57-62	769**57-59-63
43	778	744*/45-48-53	769*/49-50-55	777*/50-51-56
		748**51-55-60	777**56-60-64	787**57-60-64
40	798	762*/47-49-55	788*/50-52-57	796*/51-52-57
		765**51-55-60	790**51-54-58	
37	819	780*/48-51-56	804*/50-52-57	812*/50-52-57
		781**49-53-58		
34	838	795*/48-52-57	819*/49-52-57	827*/49-52-57
31	858	807B/48-51-58	834*/49-51-58	842*/49-51-58
28	862	815*/47-51-58	841*/48-51-58	849*/49-51-58
25	862	817*/47-51-58	842*/48-51-58	851*/49-51-58
22	862	819*/47-51-58	844*/48-51-58	852*/49-51-58
19	862	820*/47-51-58	846*/48-51-58	854*/49-51-58
16	862	822*/47-51-58	847*/48-51-58	856*/49-51-58
13	862	823*/47-51-58	849*/48-51-58	857*/49-51-58
10	862	825*/47-51-58	850*/48-51-58	859*/49-51-58
5	862	827*/47-51-58	853*/48-51-58	861*/49-51-58
0	862	830*/47-51-58	855*/49-51-58	862F/49-51-58
-5	862	832*/47-51-58	858*/49-51-58	862F/49-51-58
-10	862	834*/48-51-58	860*/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3380 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22L/E14 121 2280 0 121 2660 0 118 1490 0
 121 2039 0 121 2469 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 22R ZHHH

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

TIANHEJICHANG

WH/SOUTHCENTRAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	668	683*/40-42-45	702*/41-42-45	708*/41-42-45	
		688**48-50-53	703**54-57-60	703***55-57-60	
58A	685	699*/42-43-47	718*/43-43-47	724*/43-43-47	
		703**48-50-54	720**56-58-62	720***56-58-62	
55A	701	714*/43-45-48	734*/44-45-48	740*/44-45-48	
		718**49-51-54	737**57-60-63	737***58-60-63	
52	719	731*/45-46-50	751*/45-46-50	758*/46-46-50	
		734**49-52-56	757**59-62-65	757***59-62-65	
49	738	748*/46-48-52	769*/47-48-52	776*/47-48-52	
		751**50-53-57	774**59-63-66	777**61-64-67	
46	758	766*/47-50-54	788*/48-50-54	795*/48-50-54	
		765**49-52-56	790**59-62-65	790***59-62-65	
43	778	777B/49-51-56	806*/50-51-56	814*/50-51-56	
			790**53-56-60	790**53-56-60	
40	798	782B/48-52-56	824*/50-52-57	832*/50-52-57	
37	819	787B/48-52-57	839*/50-52-57	847*/50-52-57	
34	838	795B/48-52-57	854*/49-52-57	862F/49-52-57	
31	858	806B/47-51-58	862F/48-51-58	862F/49-51-58	
28	862	815B/47-51-58	862F/48-51-58	862F/48-51-58	
25	862	823B/47-51-58	862F/48-51-58	862F/48-51-58	
22	862	831B/47-51-58	862F/48-51-58	862F/48-51-58	
19	862	839B/47-51-58	862F/48-51-58	862F/48-51-58	
16	862	847B/47-51-58	862F/48-51-58	862F/48-51-58	
13	862	855B/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	860*/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 110 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.19 PERCENT FOR TODA AND -0.19 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
22R 7 225 0 49 1002 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 22R/B10 ZHHH

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				TIANHEJICHANG WH/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
61A	668	665*/40-41-45 666**42-43-47	689*/41-42-45 694**50-52-55	695*/41-42-45 699**53-54-58
58A	685	680*/41-43-46	704*/43-43-47 708**50-52-56	711*/43-43-47 714**53-55-58
55A	701	694*/42-44-48	720*/44-45-48 723**51-53-56	726*/44-45-48 729**54-56-59
52	719	710*/44-45-49	736*/45-46-50 739**52-54-57	743*/46-46-50 746**54-56-60
49	738	727F/45-47-51	754*/47-48-52 755**52-54-58	761*/47-48-52 763**55-57-61
46	758	740F/45-48-52	772*/48-50-54 773**53-55-59	780*/48-50-54 780**55-58-62
43	778	754F/46-49-54	790*/50-51-56 790**53-56-60	798*/50-51-56 790**53-56-60
40	798	767F/47-50-55	807*/50-52-57	815*/50-52-57
37	819	781F/48-51-57	821*/50-52-57	830*/50-52-57
34	838	794F/48-52-57	834*/49-52-57	843*/49-52-57
31	858	806B/47-51-58	846*/48-51-58	857*/49-51-58
28	862	813F/47-51-58	851*/48-51-58	862F/48-51-58
25	862	817F/47-51-58	854*/48-51-58	862F/48-51-58
22	862	821F/47-51-58	857*/48-51-58	862F/48-51-58
19	862	825F/47-51-58	859*/48-51-58	862F/48-51-58
16	862	828*/47-51-58	862F/48-51-58	862F/48-51-58
13	862	830*/47-51-58	862F/48-51-58	862F/49-51-58
10	862	833*/47-51-58	862F/48-51-58	862F/49-51-58
5	862	837*/47-51-58	862F/48-51-58	862F/49-51-58
0	862	841*/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	846*/47-51-58	862F/48-51-58	862F/49-51-58
-10	862	850*/47-51-58	862F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 110 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.19 PERCENT FOR TODA AND -0.19 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22R/B10 7 225 0 49 1002 0

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 236 FT

RUNWAY 01 ZHXF

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	LIUJIJICHANG XY/SOUTHCENTRAL
737-800 CFM56-7B26				DATED 29-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	666	619F/35-36-40	659F/40-40-44	673F/41-41-45 670**43-43-46
58A	682	630F/35-37-42	671F/41-42-46	686F/43-43-47 684**44-44-47
55A	699	642F/36-38-43	683F/42-43-47	698F/44-44-48
52	716	654F/37-39-44	697F/43-44-48	712F/45-45-50
49	735	668F/38-40-46	711F/44-45-50	726F/46-47-51
46	755	681F/39-41-47	726F/45-46-51	741F/47-48-53
43	775	694F/40-43-49	740F/46-48-53	756F/48-49-54
40	795	707F/41-44-50	755F/47-49-54	771F/49-50-55
37	816	720F/42-45-51	770F/48-50-56	787F/50-52-57
34	835	731F/42-46-53	782F/49-51-57	800F/50-52-57
31	854	743F/43-47-54	795F/49-51-58	813F/49-51-58
28	862	751F/43-47-55	803F/48-51-58	822F/49-51-58
25	862	754F/44-48-55	807F/48-51-58	826F/49-51-58
22	862	758F/44-48-55	811F/48-51-58	830F/49-51-58
19	862	762F/45-48-55	815F/48-51-58	834F/49-51-58
16	862	765F/45-49-56	819F/49-51-58	838F/49-51-58
13	862	769F/45-49-56	823F/49-51-58	842F/49-51-58
10	862	773F/46-49-56	827F/49-51-58	846F/49-51-58
5	862	779F/46-50-57	834F/49-51-58	854F/49-51-58
0	862	785F/47-51-57	841F/49-51-58	861F/49-51-58
-5	862	791F/48-51-58	848F/49-51-58	862F/49-51-58
-10	862	798F/48-51-58	855F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
01

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 236 FT

RUNWAY 19 ZHXF

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF LIUJIJICHANG
 XY/SOUTHCENTRAL
 737-800 CFM56-7B26 DATED 29-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	666	620F/35-36-41	660F/40-41-44	675F/41-41-45 671**43-43-47
58A	682	632F/36-37-42	672F/41-42-46	687F/43-43-47 685**44-44-47
55A	699	643F/36-38-43	685F/42-43-47	700F/44-44-48
52	716	656F/37-39-45	698F/43-44-48	713F/45-46-50
49	735	669F/38-40-46	712F/44-45-50	728F/46-47-51
46	755	682F/39-42-47	727F/45-46-51	743F/47-48-53
43	775	695F/40-43-49	742F/46-48-53	758F/48-49-54
40	795	708F/41-44-50	757F/47-49-54	773F/49-51-56
37	816	721F/42-45-52	771F/48-50-56	789F/50-52-57
34	835	733F/42-46-53	784F/49-51-57	802F/50-52-57
31	854	745F/43-47-54	797F/49-51-58	815F/49-51-58
28	862	752F/43-47-55	805F/48-51-58	823F/49-51-58
25	862	756F/44-48-55	809F/48-51-58	827F/49-51-58
22	862	759F/44-48-55	813F/48-51-58	831F/49-51-58
19	862	763F/45-48-56	817F/48-51-58	835F/49-51-58
16	862	767F/45-49-56	821F/48-51-58	840F/49-51-58
13	862	770F/45-49-56	825F/48-51-58	844F/49-51-58
10	862	774F/46-50-57	829F/48-51-58	848F/49-51-58
5	862	780F/46-50-57	836F/48-51-58	855F/49-51-58
0	862	787F/47-51-58	843F/49-51-58	862F/49-51-58
-5	862	793F/47-51-58	850F/49-51-58	862F/49-51-58
-10	862	799F/48-51-58	857F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
 75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 673 FT

RUNWAY 14

ZHYC

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	SANXIAJICHANG YC/SOUTHCENTRAL
737-800		CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
C	100KG	-10	0	10		
61A	657	620F/36-36-40	668F/40-40-44	681F/40-40-44		
			663**43-43-46	669**45-45-49		
58A	673	630F/37-37-42	680F/42-42-46	694F/42-42-46		
			677**43-43-47	684**46-46-50		
55A	689	640F/38-38-43	693F/44-44-47	707F/44-44-47		
			691**44-44-48	699**47-47-50		
52	706	651F/39-39-44	704F/45-45-49	721F/45-45-49		
				713**47-47-51		
49	725	664F/40-40-45	715F/46-46-50	733F/47-47-51		
				728**48-48-52		
46	745	677F/41-41-47	727F/47-47-51	745F/49-49-53		
43	764	690F/41-42-48	738F/48-48-52	756F/49-49-54		
40	784	703F/42-43-50	751F/48-49-54	768F/50-50-55		
37	805	715F/43-44-51	765F/49-50-55	781F/51-51-56		
34	823	727F/44-45-52	777F/50-51-56	794F/51-52-57		
31	841	738F/44-46-53	789F/50-52-57	807F/51-52-58		
28	855	747F/45-47-54	799F/50-51-58	817F/50-51-58		
25	856	751F/45-47-54	803F/50-51-58	821F/50-51-58		
22	857	754F/45-48-55	807F/50-51-58	825F/50-51-58		
19	858	758F/46-48-55	811F/50-51-58	829F/50-51-58		
16	858	761F/46-48-55	815F/50-51-58	833F/50-51-58		
13	859	765F/47-49-56	819F/50-51-58	837F/50-51-58		
10	860	769F/47-49-56	822F/50-51-58	841F/51-51-58		
5	860	775F/48-50-57	829F/50-51-58	848F/51-51-58		
0	861	781F/48-50-57	836F/50-51-58	855F/51-51-58		
-5	862	787F/49-51-58	843F/50-51-58	862F/51-51-58		
-10	862	794F/49-51-58	850F/50-51-58	862F/51-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 460 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 300 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.57 PERCENT FOR TODA AND -0.57 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 14 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 673 FT

RUNWAY 32 ZHYC

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	SANXIAJICHANG YC/SOUTHCENTRAL			
737-800	CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE							
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)							
C	100KG	-10	0	10			
61A	657	604F/34-34-39	642F/39-39-43	655F/40-40-44			
58A	673	615F/35-35-40	654F/40-40-44	668F/41-41-45			
55A	689	626F/36-36-41	666F/41-41-45	680F/43-43-46			
52	706	638F/37-37-43	679F/42-42-47	693F/44-44-48			
49	725	651F/38-38-44	692F/43-43-48	707F/45-45-49			
46	745	664F/39-40-46	707F/44-44-49	722F/46-46-51			
43	764	678F/40-41-47	721F/46-46-51	736F/47-47-52			
40	784	692F/41-42-49	736F/47-47-52	751F/49-49-54			
37	805	706F/42-43-50	751F/48-48-54	767F/50-50-55			
34	823	719F/43-44-51	765F/48-49-55	781F/50-51-57			
31	841	732F/43-46-53	778F/49-50-57	794F/51-52-58			
28	855	741F/44-46-54	789F/50-51-58	806F/50-51-58			
25	856	744F/44-47-54	793F/50-51-58	809F/50-51-58			
22	857	748F/45-47-54	796F/50-51-58	813F/50-51-58			
19	858	751F/45-47-55	800F/50-51-58	817F/50-51-58			
16	858	755F/46-48-55	804F/50-51-58	821F/50-51-58			
13	859	758F/46-48-55	808F/50-51-58	825F/50-51-58			
10	860	762F/46-48-55	812F/50-51-58	829F/51-51-58			
5	860	768F/47-49-56	818F/50-51-58	836F/51-51-58			
0	861	774F/48-50-56	825F/50-51-58	843F/51-51-58			
-5	862	780F/48-50-57	832F/50-51-58	850F/51-51-58			
-10	862	786F/49-51-57	838F/50-51-58	857F/51-51-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.57 PERCENT FOR TODA AND -0.57 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

32 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 75 FT

RUNWAY 09 ZJHK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				MEILANJICHANG HK/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
	OAT CLIMB			
61A	669	661*/40-41-45 675**50-53-57	680*/41-42-45 697**54-56-59	685*/42-42-45 704**55-57-60
58A	685	677*/41-42-46 690**51-55-58	695*/43-43-47 713**55-57-61	701*/43-43-47 720**56-58-62
55A	702	692*/42-44-48 705**53-56-60	711*/44-45-49 729**56-59-62	718*/44-45-49 737**58-60-63
52	720	709*/44-45-49 721**53-56-60	729*/46-46-50 746**58-61-64	735*/46-46-50 754**59-62-65
49	739	727*/45-47-51 738**52-56-60	747*/47-48-52 764**59-62-66	753*/47-48-52 772**60-63-67
46	759	745*/46-48-53 754**51-54-59	766*/48-50-54 783**60-64-68	773*/49-50-54 790**59-61-65
43	779	764*/47-50-55 769**50-53-57	785*/50-52-56 790**53-55-59	792*/50-52-56 790**53-55-59
40	799	783*/49-52-56 8020	804*/50-52-57 820*/50-52-57	810*/51-52-57 827*/50-52-57
37	820	788B/48-52-57	836*/49-52-58	843*/49-52-58
34	839	797B/48-52-58	853*/48-51-58	860*/49-51-58
31	859	808B/47-51-58	860*/48-51-58	862F/49-51-58
28	862	817B/47-51-58	861*/48-51-58	862F/49-51-58
25	862	825B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	833B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	841*/47-51-58	862F/48-51-58	862F/49-51-58
16	862	843*/47-51-58	862F/48-51-58	862F/49-51-58
13	862	844*/47-51-58	862F/48-51-58	862F/49-51-58
10	862	845*/47-51-58	862F/48-51-58	862F/49-51-58
5	862	848*/47-51-58	862F/48-51-58	862F/49-51-58
0	862	850*/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	852*/47-51-58	862F/48-51-58	862F/49-51-58
-10	862	853*/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.08 PERCENT FOR TODA AND -0.08 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 09 59 1150 0 144 2210 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 75 FT

RUNWAY 27 ZJHK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

MEILANJICHANG

HK/SOUTHCENTRAL

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	669	685*/41-42-45	703*/42-42-45	708*/42-42-45	
		695**50-52-55	704**55-57-60	704**55-57-60	
58A	685	701*/42-43-47	719*/43-43-47	724*/43-43-47	
		710**51-53-57	721**56-58-62	721**56-58-62	
55A	702	717*/44-45-49	735*/44-45-49	741*/45-45-49	
		725**52-55-58	738**58-60-64	738**58-60-64	
52	720	734*/45-46-50	752*/46-46-50	759*/46-46-50	
		741**52-54-58	758**59-62-66	758**60-62-66	
49	739	751*/46-48-52	771*/47-48-52	777*/47-48-52	
		754**51-53-57	778**61-64-68	778**61-64-68	
46	759	770*/48-50-54	790*/49-50-54	797*/49-50-54	
		766**50-52-56	790**59-61-65	790**59-61-65	
43	779	778B/49-51-56	809*/50-52-56	816*/50-52-56	
			790**53-55-59	790**54-55-59	
40	799	784B/49-52-57	827*/51-52-57	834*/51-52-57	
37	820	789B/49-52-57	843*/50-52-57	850*/50-52-57	
34	839	799B/48-52-58	858*/49-52-58	862F/50-52-58	
31	859	809B/48-51-58	862F/49-51-58	862F/49-51-58	
28	862	819B/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	827B/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	835B/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	843B/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	851B/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	860B/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
0	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.08 PERCENT FOR TODA AND 0.08 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

27 52 1050 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 95 FT

RUNWAY 08

ZJSY

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				FENGHUANG JICHANG SY/SOUTHCENTRAL DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26		61A 669	620*/35-36-40 636*/38-38-42 642*/38-38-43
				640**46-49-53 658**49-51-55 665**50-52-56
			58A 685	634*/36-37-42 651*/39-39-44 657*/40-40-44
				656**47-50-55 674**51-53-57 680**52-54-57
			55A 702	649*/38-39-44 667*/40-41-45 672*/41-41-46
				671**49-52-56 690**52-54-58 696**53-55-59
			52 720	666*/39-40-46 683*/42-42-47 689*/43-43-48
				688**50-54-58 707**53-56-60 714**54-57-61
			49 739	683*/40-42-47 701*/43-44-49 707*/44-45-49
				705**52-56-60 725**55-58-62 732**56-59-63
			46 759	701*/42-44-49 720*/45-46-51 726*/46-46-51
				724**53-57-62 744**56-60-64 751**58-60-65
			43 778	719*/43-45-51 738*/46-47-52 744*/47-48-53
				740**54-58-63 763**58-61-66 770**59-62-67
			40 799	736*/44-47-53 756*/47-49-54 762*/48-49-55
				755**52-57-62 781**59-63-68 788**60-64-69
			37 819	754*/45-48-54 774*/48-50-56 780*/49-51-56
				768**51-55-61 790**55-58-63 790**53-55-60
			34 838	771*/47-50-56 791*/49-52-57 798*/50-52-57
				781**50-54-60
			31 858	789*/48-51-58 808*/49-51-58 815*/49-51-58
				790**48-52-58
			28 862	796*/48-51-58 816*/49-51-58 823*/49-51-58
			25 862	797*/48-51-58 817*/49-51-58 824*/49-51-58
			22 862	798*/48-51-58 818*/49-51-58 825*/49-51-58
			19 862	799*/48-51-58 819*/49-51-58 826*/49-51-58
			16 862	799*/48-51-58 820*/49-51-58 826*/49-51-58
			13 862	800*/48-51-58 821*/49-51-58 827*/49-51-58
			10 862	801*/48-51-58 821*/49-51-58 828*/49-51-58
			5 862	802*/48-51-58 823*/49-51-58 829*/49-51-58
			0 862	803*/48-51-58 824*/49-51-58 831*/49-51-58
			-5 862	804*/48-51-58 825*/49-51-58 832*/49-51-58
			-10 862	804*/48-51-58 825*/49-51-58 832*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 940 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.24 PERCENT FOR TODA AND 0.24 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 08 636 8106 0 525 7776 0

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ELEVATION 95 FT

RUNWAY 26 ZJSY

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	FENGHUANG JICHANG SY/SOUTHCENTRAL DATED 10-JUN-2019
737-800 CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG		-10	0	10
61A 669	642*/37-38-43	659*/40-40-44	665*/41-41-45	
	659**48-51-55	679**51-54-57	686**52-54-58	
58A 685	657*/38-40-44	675*/41-42-46	680*/42-43-46	
	675**49-53-57	695**53-55-59	702**54-56-60	
55A 702	672*/40-41-46	690*/43-43-48	696*/44-44-48	
	690**51-54-58	711**54-57-61	718**55-58-61	
52 720	689*/41-43-48	707*/44-45-49	714*/45-46-50	
	707**52-56-60	729**55-59-62	736**56-59-63	
49 739	706*/42-44-49	725*/45-47-51	732*/46-47-52	
	724**53-58-62	747**57-60-64	754**58-61-65	
46 759	725*/44-46-51	744*/47-48-53	751*/48-49-53	
	740**52-56-61	766**58-62-66	773**59-63-67	
43 778	743*/45-48-53	763*/48-50-55	770*/49-51-55	
	755**51-55-60	784**60-64-68	790**59-62-66	
40 799	761*/46-49-55	782*/49-52-56	789*/50-52-57	
	769**50-54-59	790**52-55-60	790**51-53-57	
37 819	780*/47-51-56	800*/49-52-57	807*/50-52-57	
	783**49-52-58			
34 838	795B/48-52-57	817*/49-52-57	823*/49-52-57	
31 858	806B/47-51-58	834*/48-51-58	841*/49-51-58	
28 862	815B/47-51-58	841*/48-51-58	848*/48-51-58	
25 862	821*/47-51-58	842*/48-51-58	849*/48-51-58	
22 862	822*/47-51-58	844*/48-51-58	851*/48-51-58	
19 862	823*/47-51-58	845*/48-51-58	852*/48-51-58	
16 862	824*/47-51-58	846*/48-51-58	853*/48-51-58	
13 862	825*/47-51-58	847*/48-51-58	854*/48-51-58	
10 862	826*/47-51-58	848*/48-51-58	855*/48-51-58	
5 862	828*/47-51-58	850*/48-51-58	857*/49-51-58	
0 862	830*/47-51-58	852*/48-51-58	859*/49-51-58	
-5 862	831*/47-51-58	853*/48-51-58	860*/49-51-58	
-10 862	832*/47-51-58	854*/48-51-58	862*/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 470 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.24 PERCENT FOR TODA AND -0.24 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 26 318 4565 0 174 3555 0

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ELEVATION 3747 FT

RUNWAY 03

ZLIC

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				HEDONG YC/NORTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	594	649F/33-34-37 622**44-47-49	686F/34-34-37 624**46-48-51	699F/34-34-37 624**47-48-51
58A	610	662F/35-36-39 636**45-47-50	699F/35-36-39 641**48-50-53	713F/36-36-39 641**48-50-53
55A	625	675F/36-37-41 650**46-48-51	713F/37-37-41 657**50-52-55	727F/37-37-41 657**50-52-55
52A	641	688F/37-39-42 665**47-49-52	727F/38-39-42 673**51-54-57	741F/38-39-42 673**52-54-57
49A	656	701F/39-40-44 679**47-50-53	741F/40-40-44 690**53-55-59	754F/40-40-44 690**53-55-59
46	672	715F/40-42-46 694**48-51-54	755F/41-42-46 707**54-57-60	769F/41-42-46 707**55-57-60
43	690	730F/42-44-47 705**47-50-53	771F/43-44-47 726**56-59-62	785F/43-44-47 726**56-59-62
40	708	742B/43-45-49 717**46-49-52	786F/44-45-49 742**56-59-63	801F/44-45-49 745**58-61-64
37	726	734B/45-47-51 728**45-48-52	802F/45-47-51 756**55-58-62	817F/46-47-51 763**59-62-66
34	744	735B/45-48-52	816F/47-49-53 768**54-58-61	832F/47-49-53 777**58-61-65
31	758	740B/45-48-53	827F/48-50-54 778**54-57-61	844F/48-50-54 788**57-61-64
28	771	744B/45-48-53	837F/49-51-55 788**54-57-61	854F/49-51-55 790**55-58-62
25	780	749B/45-48-54	839B/49-52-56 790**52-55-59	862F/50-52-56 790**52-55-59
22	786	753B/45-49-54	842B/50-52-57 790**51-54-58	862F/50-52-57 790**51-54-58
19	787	757B/46-49-54	850B/50-52-57 790**51-53-58	862F/50-52-57 790**51-53-58
16	787	760B/46-50-55	858B/50-52-57 790**51-53-58	862F/50-52-57 790**51-53-58
13	788	764B/47-50-55	862F/50-52-57 790**51-53-58	862F/50-52-57 790**51-53-58
10	788	768B/47-50-55	862F/50-52-57 790**51-53-58	862F/50-52-57 790**51-53-58
5	789	775B/48-51-56	862F/50-53-57 790**51-53-57	862F/50-53-57 790**51-53-57
0	789	782B/49-52-56	862F/50-53-57	862F/51-53-57
-5	790	789B/49-53-57	862F/50-53-57	862F/51-53-57
-10	790	802B/49-53-57	862F/50-53-57	862F/51-53-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.37 PERCENT FOR TODA AND -0.37 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3747 FT

RUNWAY 03/A9 ZLIC

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	HEDONG YC/NORTHWEST	DATED 10-JUN-2019
737-800		CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10		
61A	594	614F/33-34-37	649F/34-34-37	662F/34-34-37			
		605**37-38-41	621**45-47-49	624**47-48-51			
58A	610	626F/35-36-39	662F/35-36-39	675F/36-36-39			
		618**38-39-42	636**46-47-50	641**48-50-53			
55A	625	637F/36-37-41	675F/37-37-41	688F/37-37-41			
		632**38-40-43	650**46-48-51	655**49-51-54			
52A	641	649F/37-39-42	688F/38-39-42	701F/38-39-42			
		646**39-41-44	665**47-49-52	670**50-52-55			
49A	656	661F/39-40-44	701F/40-40-44	715F/40-40-44			
		659**40-42-45	679**48-50-53	685**51-53-56			
46	672	674F/40-42-46	715F/41-42-46	729F/41-42-46			
			694**49-51-54	700**51-53-57			
43	690	688F/42-43-47	730F/43-44-47	744F/43-44-47			
			710**49-52-55	717**52-54-58			
40	708	702F/43-45-49	744F/44-45-49	759F/44-45-49			
			727**50-52-56	734**53-55-59			
37	726	716F/43-46-50	759F/45-47-51	774F/46-47-51			
			743**51-53-57	751**53-56-60			
34	744	729F/44-47-52	774F/47-49-53	789F/47-49-53			
			759**51-54-58	767**54-57-61			
31	758	740B/45-48-53	786F/48-50-54	801F/48-50-54			
			773**52-55-59	780**55-58-62			
28	771	744B/45-48-53	797F/49-51-55	812F/49-51-55			
			784**53-56-60	790**55-58-62			
25	780	749B/45-48-54	806F/49-52-56	821F/50-52-56			
			790**52-55-59	790**52-55-59			
22	786	753B/45-49-54	813F/50-52-57	829F/50-52-57			
			790**51-54-58	790**51-54-58			
19	787	757B/46-49-54	817F/50-52-57	833F/50-52-57			
			790**51-53-58	790**51-53-58			
16	787	760B/46-50-55	821F/50-52-57	837F/50-52-57			
			790**51-53-58	790**51-53-58			
13	788	764B/47-50-55	824F/50-52-57	841F/50-52-57			
			790**51-53-58	790**51-53-58			
10	788	768B/47-50-55	828F/50-52-57	845F/50-52-57			
			790**51-53-58	790**51-53-58			
5	789	775B/48-51-56	835F/50-53-57	851F/50-53-57			
			790**51-53-57	790**51-53-57			
0	789	782B/49-52-56	841F/50-53-57	858F/51-53-57			
-5	790	789B/49-53-57	848F/50-53-57	862F/51-53-57			
-10	790	802B/49-53-57	855F/50-53-57	862F/51-53-57			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.37 PERCENT FOR TODA AND -0.37 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/A9 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3747 FT

RUNWAY 21

ZLIC

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				HEDONG YC/NORTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	594	638F/34-34-37 617**43-44-47	669F/34-34-37 624**47-48-51	679F/34-34-37 624**47-48-51
58A	610	650F/35-36-39 631**44-45-48	683F/36-36-39 641**49-50-53	693F/36-36-39 641**49-50-53
55A	625	663F/37-37-41 645**44-46-49	697F/37-37-41 657**51-52-55	708F/37-37-41 657**51-52-55
52A	641	676F/38-39-42 659**45-46-50	711F/39-39-42 673**52-54-57	722F/39-39-42 673**53-54-57
49A	656	689F/40-40-44 673**46-47-51	725F/40-40-44 690**54-55-59	736F/40-40-44 690**54-55-59
46	672	703F/41-42-46 688**47-48-52	740F/42-42-46 706**55-56-60	752F/42-42-46 707**56-57-60
43	690	717F/43-44-47 704**48-49-53	757F/44-44-47 723**55-57-61	768F/44-44-47 726**57-59-62
40	708	732F/44-45-49 718**47-49-53	773F/45-45-49 740**56-58-62	785F/45-45-49 745**59-61-64
37	726	739B/46-47-51 730**47-48-52	788F/46-47-51 757**57-59-62	801F/47-47-51 762**59-61-65
34	744	737B/46-48-52	802F/48-49-53 769**56-58-62	817F/48-49-53 778**59-62-65
31	758	742B/46-48-53	814F/49-50-54 780**55-58-61	829F/49-50-54 789**59-61-65
28	771	747B/46-48-53	824F/50-51-55 789**55-57-61	839F/50-51-55 790**56-58-62
25	780	752B/47-49-54	832F/50-52-56 790**53-55-59	848F/51-52-56 790**54-55-59
22	786	756B/47-49-54	839F/51-52-57 790**52-54-58	855F/51-52-57 790**52-54-58
19	787	760B/47-50-55	843F/51-52-57 790**52-53-58	858F/51-52-57 790**52-53-58
16	787	763B/48-50-55	846F/51-52-57 790**52-53-58	862F/51-52-57 790**52-53-58
13	788	767B/48-50-55	850F/51-52-57 790**52-53-58	862F/51-52-57 790**52-53-58
10	788	771B/49-51-56	854F/51-52-57 790**52-53-58	862F/51-52-57 790**52-53-58
5	789	778B/49-51-56	860F/51-53-57 790**52-53-57	862F/52-53-57 790**52-53-57
0	789	784B/50-52-57	862F/51-53-57	862F/52-53-57
-5	790	793B/51-53-57	862F/51-53-57	862F/52-53-57
-10	790	807B/51-53-57	862F/52-53-57	862F/52-53-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.37 PERCENT FOR TODA AND 0.37 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3747 FT

RUNWAY 21/A2 ZLIC

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			HEDONG YC/NORTHWEST DATED 10-JUN-2019		
737-800	CFM56-7B26				
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10	
61A	594	622F/34-34-37 609**39-40-43	654F/34-34-37 624**47-48-51	664F/34-34-37 624**47-48-51	
58A	610	634F/35-36-39	668F/36-36-39	678F/36-36-39	
		622**40-41-44	639**48-49-52	641**49-50-53	
55A	625	646F/37-37-41 636**41-42-45	682F/37-37-41 653**49-50-53	692F/37-37-41 657**51-52-55	
52A	641	658F/38-39-42	696F/39-39-42	706F/39-39-42	
		650**42-43-46	668**50-51-54	673**52-53-56	
49A	656	670F/40-40-44	709F/40-40-44	720F/40-40-44	
		664**42-43-47	682**50-51-55	688**53-54-57	
46	672	683F/41-42-46	723F/42-42-46	735F/42-42-46	
		678**43-44-48	698**51-52-56	703**54-55-58	
43	690	697F/43-44-47	738F/44-44-47	751F/44-44-47	
		694**44-45-49	715**52-53-57	720**55-56-59	
40	708	712F/44-45-49	753F/45-45-49	767F/45-45-49	
		710**45-46-50	731**53-54-58	738**55-57-60	
37	726	726F/46-47-51	768F/46-47-51	782F/47-47-51	
			748**53-55-59	755**56-58-61	
34	744	737B/46-48-52	783F/48-49-53	797F/48-49-53	
			764**54-56-60	771**57-59-62	
31	758	742B/46-48-53	796F/49-50-54	810F/49-50-54	
			777**55-57-61	784**57-59-63	
28	771	747B/46-48-53	807F/50-51-55	821F/50-51-55	
			789**55-57-61	790**56-58-62	
25	780	752B/47-49-54	815F/50-52-56	830F/51-52-56	
			790**53-55-59	790**54-55-59	
22	786	756B/47-49-54	822F/51-52-57	837F/51-52-57	
			790**52-54-58	790**52-54-58	
19	787	760B/47-50-55	825F/51-52-57	840F/51-52-57	
			790**52-53-58	790**52-53-58	
16	787	763B/48-50-55	829F/51-52-57	844F/51-52-57	
			790**52-53-58	790**52-53-58	
13	788	767B/48-50-55	832F/51-52-57	848F/51-52-57	
			790**52-53-58	790**52-53-58	
10	788	771B/49-51-56	836F/51-52-57	851F/51-52-57	
			790**52-53-58	790**52-53-58	
5	789	778B/49-51-56	842F/51-53-57	858F/52-53-57	
			790**52-53-57	790**52-53-57	
0	789	784B/50-52-57	848F/51-53-57	862F/52-53-57	
-5	790	793B/51-53-57	854F/51-53-57	862F/52-53-57	
-10	790	807B/51-53-57	861F/52-53-57	862F/52-53-57	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.37 PERCENT FOR TODA AND 0.37 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21/A2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 18

ZLLL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				ZHONGCHUANG LZ/NORTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	61
		-10 0 10		
58A	552	563*/28-29-32	577*/29-29-32	582*/29-29-32
		574**40-42-45	580**41-43-46	580**41-43-46
55A	566	577*/30-31-34	591*/31-31-34	596*/31-31-34
		587**41-44-47	595**43-45-48	595**43-45-48
52A	580	590*/31-33-36	605*/32-33-36	609*/32-33-36
		600**42-45-48	610**45-47-49	610**45-47-49
49A	594	604*/33-34-37	618*/33-34-37	623*/34-34-37
		613**44-47-50	625**46-48-51	625**46-48-51
46A	608	617*/34-36-39	632*/35-36-39	637*/35-36-39
		627**45-48-51	640**48-50-53	640**48-50-53
43A	623	631*/35-37-40	646*/36-37-40	651*/36-37-40
		640**46-49-52	655**49-52-55	655**50-52-55
40	639	646*/37-39-42	662*/38-39-42	667*/38-39-42
		655**47-50-53	672**51-54-57	672**51-54-57
37	656	662*/39-40-44	679*/39-40-44	684*/40-40-44
		670**45-48-52	690**53-56-59	690**53-56-59
34	671	677*/40-42-46	694*/41-42-46	700*/41-42-46
		682**44-47-50	706**54-57-60	707**54-57-61
31	686	690*/41-43-47	708*/42-43-47	714*/42-43-47
		693**43-46-50	717**53-56-60	722**56-59-62
28	699	703*/42-45-48	721*/43-45-48	727*/43-45-48
		701**43-45-49	728**53-56-59	735**56-59-63
25	707	708B/43-45-49	729*/44-45-49	735*/44-45-49
			735**53-56-59	742**56-59-63
22	713	712B/43-46-50	736*/44-46-50	742*/44-46-50
			740**53-56-59	748**56-59-63
19	720	716B/43-46-50	743*/45-47-51	749*/45-47-51
			746**53-56-60	754**56-60-63
16	724	719B/44-46-51	747*/45-47-51	753*/45-47-51
			750**53-56-60	758**57-60-64
13	724	723B/44-47-51	748*/45-47-51	754*/45-47-51
			752**54-57-61	760**57-61-64
10	725	729B/44-47-51	750*/45-47-51	756*/45-47-51
		726**45-47-51	754**54-58-61	762**58-62-65
5	726	733*/44-47-51	752*/45-47-51	758*/46-47-51
		730**46-48-52	758**56-59-63	765**59-63-66
0	726	735*/45-47-51	754*/45-47-51	760*/46-47-51
		734**47-50-53	761**57-60-64	766**59-63-67
-5	727	737*/45-47-51	755*/46-47-51	762*/46-47-51
		738**48-51-55	764**58-62-65	767**60-63-67
-10	728	739*/45-47-51	757*/46-47-51	763*/46-47-51
		741**49-52-56	768**59-63-67	768**60-63-67

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.51 PERCENT FOR TODA AND -0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18 112 1844 0 115 1841 0 125 2019 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 18/A2 ZLLL

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	ZHONGCHUANG LZ/NORTHWEST
737-800 CFM56-7B26			DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG		-10	0	10
61					
58A	552	559*/28-29-32 568**39-41-44	573*/29-29-32 580**41-43-46	578*/29-29-32 580**41-43-46	
55A	566	572*/30-31-34 581**40-43-46	587*/31-31-34 595**43-45-48	592*/31-31-34 595**43-45-48	
52A	580	585*/31-33-36 594**41-44-47	601*/32-33-36 610**45-47-49	605*/32-33-36 610**45-47-49	
49A	594	598*/33-34-37 607**43-46-49	614*/33-34-37 625**46-48-51	619*/34-34-37 625**46-48-51	
46A	608	612*/34-36-39 620**43-47-50	628*/35-36-39 640**48-50-53	633*/35-36-39 640**48-50-53	
43A	623	625*/35-37-40 633**44-47-51	642*/36-37-40 654**49-52-55	647*/36-37-40 655**50-52-55	
40	639	640*/37-39-42 647**45-48-52	658*/38-39-42 670**51-53-56	663*/38-39-42 672**51-54-57	
37	656	655*/39-40-44 663**46-49-53	674*/39-40-44 686**52-55-58	679*/40-40-44 690**53-56-59	
34	671	670*/40-42-46 677**45-48-52	689*/41-42-46 701**53-56-59	695*/41-42-46 707**54-57-61	
31	686	684*/41-43-47 688**44-47-51	703*/42-43-47 715**53-57-60	709*/42-43-47 722**56-59-62	
28	699	696*/42-44-48 699**43-46-50	716*/43-45-48 728**53-56-59	722*/43-45-48 735**56-59-63	
25	707	704*/43-45-49 705**43-46-50	724*/44-45-49 735**53-56-59	730*/44-45-49 742**56-59-63	
22	713	710*/43-46-50	731*/44-46-50 740**53-56-59	737*/44-46-50 748**56-59-63	
19	720	716B/43-46-50	738*/45-47-51 746**53-56-60	744*/45-47-51 754**56-60-63	
16	724	719B/44-46-51	742*/45-47-51 750**53-56-60	748*/45-47-51 758**57-60-64	
13	724	723*/44-47-51	743*/45-47-51 752**54-57-61	749*/45-47-51 760**57-61-64	
10	725	724*/44-47-51	744*/45-47-51 754**54-58-61	750*/45-47-51 762**58-62-65	
5	726	726*/44-47-51 729**46-49-53	746*/45-47-51 758**56-59-63	752*/46-47-51 765**59-63-66	
0	726	729*/45-47-51 733**47-50-54	748*/45-47-51 761**57-60-64	754*/46-47-51 766**59-63-67	
-5	727	731*/45-47-51 736**48-51-55	750*/46-47-51 764**58-62-65	756*/46-47-51 767**60-63-67	
-10	728	733*/45-47-51 740**49-52-56	752*/46-47-51 768**59-63-67	758*/46-47-51 768**60-63-67	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.51 PERCENT FOR TODA AND -0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18/A2 112 1844 0 115 1841 0 125 2019 0

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ELEVATION 6391 FT

RUNWAY 36

ZLLL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				ZHONGCHUANG LZ/NORTHWEST DATED 10-JUN-2019							
737-800	CFM56-7B26	OAT CLIMB WIND COMPONENT IN KNOTS (MINUSES DENOTES TAILWIND)									
OAT C	100KG	-10	0	10							
61											
58A	552	536*/27-27-30	547*/29-29-32	551*/29-29-32							
		557**38-40-43	570**41-42-44	574**42-42-45							
55A	566	549*/29-29-32	561*/30-30-33	565*/31-31-34							
		571**40-42-45	584**42-44-46	589**43-44-47							
52A	580	563*/30-30-34	575*/32-32-35	579*/32-32-35							
		585**41-43-46	599**44-45-48	603**45-46-49							
49A	594	576*/31-32-35	589*/33-33-37	593*/34-34-37							
		599**43-45-48	613**46-47-50	617**46-47-50							
46A	608	590*/33-33-37	602*/35-35-38	606*/35-35-39							
		613**44-46-50	627**47-48-51	632**48-49-52							
43A	623	603*/34-35-38	616*/36-36-40	621*/37-37-40							
		627**46-48-51	642**49-50-53	646**50-51-54							
40	639	619*/36-36-40	632*/38-38-42	636*/38-38-42							
		643**48-50-53	658**50-52-55	663**51-52-56							
37	656	634*/37-38-42	648*/40-40-43	652*/40-40-44							
		659**49-51-55	674**52-54-57	680**53-54-58							
34	671	649*/38-39-44	663*/41-41-45	668*/42-42-45							
		670**48-50-54	691**53-55-59	696**54-56-59							
31	686	663*/40-41-45	677*/42-42-46	682*/43-43-47							
		681**47-49-53	705**55-57-60	711**55-57-61							
28	699	675*/41-42-46	690*/43-44-48	694*/44-44-48							
		690**47-48-53	719**56-58-62	724**57-59-62							
25	707	683*/41-43-47	698*/44-44-48	702*/45-45-49							
		696**46-48-53	726**56-58-62	733**57-60-63							
22	713	689*/42-43-48	704*/44-45-49	709*/45-45-50							
		701**47-48-53	732**56-58-62	739**58-60-64							
19	720	695*/43-44-48	710*/45-45-50	715*/46-46-50							
		706**47-49-53	738**56-58-62	746**59-61-65							
16	724	699*/43-44-49	714*/45-46-50	719*/46-46-51							
		710**47-49-53	742**56-58-62	751**59-61-65							
13	724	700*/43-44-49	715*/45-46-50	720*/46-46-51							
		712**48-50-54	744**57-59-63	751**59-61-65							
10	725	700*/43-44-49	715*/45-46-50	720*/46-46-51							
		714**48-50-55	745**58-60-64	752**59-61-65							
5	726	701*/43-44-49	716*/46-46-50	721*/46-47-51							
		717**49-51-56	747**58-61-65	753**59-62-65							
0	726	702*/43-44-49	717*/46-46-50	722*/47-47-51							
		721**50-53-57	749**59-61-65	755**60-62-65							
-5	727	703*/43-44-49	718*/46-46-50	723*/47-47-51							
		724**51-54-58	750**59-61-65	756**60-62-66							
-10	728	703*/44-45-49	719*/46-46-51	724*/47-47-51							
		727**53-55-59	751**59-61-65	757**60-62-66							

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 810 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY			RUNWAY SLOPES ARE 0.51 PERCENT FOR TODA AND 0.51 PERCENT FOR ASDA			LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M		
	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
36	463	11278	0	325	7764	0	59	924	0
	16	290	0	62	981	0	410	9190	0
	430	7280	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36/A7 ZLLL

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	ZHONGCHUANG LZ/NORTHWEST
737-800		CFM56-7B26	DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG		-10	0	10
61					
58A	552	532*/27-27-30	544*/28-28-31	548*/29-29-32	
		545**33-34-37	565**40-41-43	570**41-42-44	
55A	566	545*/28-28-32	558*/30-30-33	562*/30-30-33	
		558**35-36-39	578**41-42-44	584**43-43-46	
52A	580	559*/29-30-33	571*/31-31-35	575*/32-32-35	
		570**35-37-40	591**41-42-45	598**44-45-47	
49A	594	572*/31-31-35	585*/33-33-36	589*/33-33-37	
		582**35-36-40	604**42-43-46	610**44-45-48	
46A	608	585*/32-33-36	598*/34-34-38	603*/35-35-38	
		594**37-39-42	617**43-44-47	624**45-46-49	
43A	623	599*/33-34-38	612*/36-36-39	617*/36-36-40	
		607**39-41-45	630**44-45-48	637**46-47-50	
40	639	614*/35-36-40	627*/37-37-41	632*/38-38-42	
		620**39-40-44	644**45-46-49	652**47-48-51	
37	656	629*/36-37-42	643*/39-39-43	648*/40-40-43	
		634**41-42-46	659**46-47-51	667**48-49-52	
34	671	644*/38-39-43	658*/40-41-45	663*/41-41-45	
		648**41-43-47	673**47-48-52	682**49-50-54	
31	686	657*/39-40-45	672*/42-42-46	677*/42-42-46	
		660**42-44-48	686**48-49-53	695**50-51-55	
28	699	670*/40-41-46	685*/43-43-47	690*/44-44-48	
		672**42-44-48	698**50-51-55	707**51-52-56	
25	707	677*/41-42-47	693*/43-44-48	698*/44-44-48	
		679**43-45-49	706**50-52-56	715**51-52-56	
22	713	683*/41-43-47	699*/44-44-49	704*/45-45-49	
		686**44-45-50	713**51-53-57	722**51-53-57	
19	720	690*/42-43-48	705*/44-45-49	710*/45-45-50	
		692**44-46-51	720**52-54-58	729**52-53-57	
16	724	693*/42-44-48	709*/45-45-50	714*/46-46-50	
		697**45-47-51	724**52-54-58	734**53-55-59	
13	724	694*/42-44-48	710*/45-45-50	715*/46-46-50	
		698**46-48-52	726**52-54-58	736**54-56-60	
10	725	694*/42-44-48	710*/45-45-50	715*/46-46-50	
		700**46-49-53	728**51-53-57	738**54-56-60	
5	726	695*/42-44-48	711*/45-45-50	716*/46-46-50	
		703**47-50-54	732**53-55-59	741**55-57-61	
0	726	696*/43-44-49	712*/45-46-50	717*/46-46-50	
		706**48-51-55	735**54-55-59	744**56-58-62	
-5	727	697*/43-44-49	713*/45-46-50	718*/46-46-51	
		710**49-52-56	738**55-57-61	747**57-59-63	
-10	728	698*/43-44-49	714*/46-46-50	719*/46-46-51	
		713**50-53-57	741**56-58-62	749**58-61-64	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 780 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
36/A7	463	11278	0	325	7764	0	59	924	0
	16	290	0	62	981	0	410	9190	0
	430	7280	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36/A8 ZLLL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF ZHONGCHUANG
 LZ/NORTHWEST
 737-800 CFM56-7B26 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61								
58A	552	533*/27-27-30 553**37-39-42	545*/28-28-31 567**40-41-44	549*/29-29-32 572**41-42-45				
55A	566	547*/28-28-32 566**38-40-43	559*/30-30-33 581**42-43-46	563*/31-31-34 586**43-44-46				
52A	580	560*/30-30-33 578**39-40-43	573*/32-32-35 595**43-45-48	577*/32-32-35 600**44-45-48				
49A	594	573*/31-31-35 591**39-41-44	586*/33-33-36 609**45-46-49	590*/34-34-37 614**46-47-50				
46A	608	587*/32-33-37 604**40-42-45	600*/34-34-38 624**47-48-51	604*/35-35-38 629**47-49-52				
43A	623	601*/34-34-38 617**41-43-46	614*/36-36-40 638**48-50-53	618*/37-37-40 643**49-50-53				
40	639	616*/35-36-40 631**42-44-48	629*/38-38-41 653**49-50-54	634*/38-38-42 659**51-52-55				
37	656	631*/37-38-42 645**43-45-49	645*/39-39-43 668**50-51-55	650*/40-40-44 676**52-54-57				
34	671	646*/38-39-43 659**44-46-50	660*/41-41-45 683**51-52-56	665*/41-41-45 691**53-55-58				
31	686	660*/39-40-45 672**44-46-50	674*/42-42-46 697**51-53-57	679*/43-43-47 705**54-55-59				
28	699	672*/40-42-46 683**45-47-51	687*/43-43-47 709**52-54-57	692*/44-44-48 717**54-56-60				
25	707	679*/41-42-47 691**47-49-53	694*/44-44-48 718**53-54-58	699*/44-44-49 726**55-57-61				
22	713	686*/42-43-47 698**47-49-53	701*/44-45-49 724**53-55-59	706*/45-45-49 732**56-58-61				
19	720	692*/42-43-48 704**47-49-53	707*/45-45-49 731**54-56-60	712*/45-46-50 740**56-58-62				
16	724	696*/42-44-48 708**47-49-54	711*/45-45-50 736**55-57-61	716*/46-46-50 744**57-59-63				
13	724	696*/43-44-49 710**48-50-54	712*/45-46-50 738**55-57-61	717*/46-46-50 746**58-60-64				
10	725	697*/43-44-49 712**48-51-55	712*/45-46-50 739**56-58-62	717*/46-46-50 747**58-60-64				
5	726	698*/43-44-49 715**50-52-56	713*/45-46-50 742**57-59-63	718*/46-46-50 749**59-61-65				
0	726	698*/43-44-49 719**51-53-57	714*/45-46-50 744**58-60-64	719*/46-46-51 751**59-61-65				
-5	727	699*/43-44-49 722**52-54-58	715*/46-46-50 746**58-61-64	720*/46-46-51 752**59-61-65				
-10	728	700*/43-44-49 724**53-55-60	716*/46-46-50 747**58-61-65	721*/46-46-51 753**59-61-65				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 790 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.51 PERCENT FOR TODA AND 0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 36/A8 463 11278 0 325 7764 0 59 924 0
 16 290 0 62 981 0 410 9190 0
 430 7280 0

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 18

ZLLL

*** FLAPS 01 *** AIR COND OFF ANTI-ICE OFF				ZHONGCHUANG LZ/NORTHWEST
737-800 CFM56-7B26				DATED 07-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
C	100KG	-10	0	10
61				
58A	573	573*/37-38-40 577**43-45-47	590*/38-38-40 596**49-50-52	594*/38-38-40 602**52-54-56
55A	587	586*/38-39-41 590**45-47-49	604*/39-40-42 610**49-51-53	609*/40-40-42 616**53-55-57
52A	602	599*/40-41-43 603**46-48-50	618*/41-41-43 624**50-52-54	623*/41-41-43 630**54-56-58
49A	616	613*/41-42-45 616**47-49-51	631*/42-43-45 638**51-52-55	637*/43-43-45 644**55-56-59
46A	631	626*/42-44-46 629**48-50-53	645*/44-44-47 651**52-54-56	651*/44-44-47 658**56-57-60
43A	646	640*/44-45-48 642**48-50-53	660*/45-46-49 665**54-56-58	665*/46-46-49 672**56-58-61
40	663	654*/45-47-50 656**47-49-51	676*/47-48-50 681**55-57-59	681*/47-48-50 688**57-59-62
37	680	665B/46-48-51	692*/49-50-52 696**55-56-59	698*/49-50-52 704**58-60-62
34	697	669B/46-48-51	708*/50-51-54 708**54-56-58	714*/50-51-54 716**57-59-62
31	712	674B/46-48-52	722*/51-53-56 718**53-55-58	728*/51-53-56 726**56-58-61
28	726	678B/46-48-53	732B/52-54-57 728**53-55-58	741*/52-54-57 736**56-58-61
25	735	682B/46-49-53	734B/53-55-58	750*/53-55-58 743**56-58-61
22	741	686B/46-49-53	738B/53-55-58	756*/54-55-59 749**56-58-61
19	748	689B/47-49-54	742B/53-55-59	763*/54-56-59 755**56-58-61
16	753	693B/47-50-54	747B/54-56-59	768*/55-57-60 759**57-59-62
13	753	697B/47-50-55	750B/54-56-59	770*/55-57-60 761**57-59-63
10	753	700B/48-51-55	755B/55-57-60	771*/55-57-60 763**58-60-63
5	754	706B/49-51-55	767*/55-57-60 758**56-58-61	773*/55-57-60 767**59-62-65
0	755	713B/49-52-56	769*/55-57-60 762**57-59-62	776*/55-57-60 771**60-63-66
-5	756	719B/50-53-57	771*/55-57-60 765**58-60-63	778*/55-57-60 775**62-64-67
-10	756	726B/51-53-57	773*/55-57-60 769**59-62-65	780*/55-57-60 778**63-66-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.51 PERCENT FOR TODA AND -0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18 112 1844 0 115 1841 0 125 2019 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 18/A2 ZLLL

ZHONGCHUANG
LZ/NORTHWEST

DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10
 61

58A	573	567*/36-37-39 570**42-44-46	585*/38-38-40 590**46-47-49	590*/38-38-40 597**49-50-52
55A	587	580*/38-39-41 583**43-45-48	599*/39-40-42 604**48-49-51	604*/40-40-42 611**50-51-53
52A	602	593*/39-40-42 596**45-47-49	612*/41-41-43 617**48-50-52	618*/41-41-43 624**51-52-54
49A	616	606*/40-41-44 609**45-48-50	626*/42-43-45 631**50-51-53	632*/43-43-45 638**51-53-55
46A	631	619*/42-43-46 621**45-47-50	640*/44-44-47 644**51-52-54	646*/44-44-47 652**52-54-56
43A	646	633*/43-44-47 635**48-50-53	654*/45-46-49 658**52-54-56	661*/46-46-49 666**54-55-58
40	663	647*/44-46-49 649**48-50-53	669*/47-48-50 673**54-56-59	676*/47-48-50 681**55-56-59
37	680	663*/46-47-51	685*/49-50-52 689**55-58-60	693*/49-50-52 697**57-59-61
34	697	669B/46-48-51	701*/50-51-54 704**54-56-59	708*/50-51-54 712**57-60-62
31	712	674B/46-48-52	714*/51-53-56 717**53-55-58	722*/51-53-56 726**57-59-61
28	726	678B/46-48-53	727*/52-54-57 728**53-55-58	735*/52-54-57 736**56-58-61
25	735	682B/46-49-53	734B/53-55-58	744*/53-55-58 743**56-58-61
22	741	686B/46-49-53	738B/53-55-58	750*/54-55-59 749**56-58-61
19	748	689B/47-49-54	742B/53-55-59	758*/54-56-59 755**56-58-61
16	753	693B/47-50-54	747B/54-56-59	762*/55-57-60 759**57-59-62
13	753	697B/47-50-55	750B/54-56-59	764*/55-57-60 761**57-59-63
10	753	700B/48-51-55	755B/55-57-60	765*/55-57-60 763**58-60-63
5	754	706B/49-51-55	760*/55-57-60 758**56-58-61	767*/55-57-60 767**59-62-65
0	755	713B/49-52-56	763*/55-57-60 762**57-59-62	770*/55-57-60 771**60-63-66
-5	756	719B/50-53-57	765*/55-57-60 765**58-60-63	772*/55-57-60 775**62-64-67
-10	756	726B/51-53-57	767*/55-57-60 769**59-62-65	774*/55-57-60 778**63-66-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.51 PERCENT FOR TODA AND -0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18/A2 112 1844 0 115 1841 0 125 2019 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36

ZLLL

*** FLAPS 01 *** AIR COND OFF ANTI-ICE OFF				ZHONGCHUANG LZ/NORTHWEST DATED 07-JUN-2019							
737-800	CFM56-7B26	OAT OUTSIDE ENVIRONMENTAL ENVELOPE WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)									
OAT CLIMB	C 100KG	-10	0	10							
61											
58A	573	552*/35-35-38	565*/37-37-39	569*/37-37-39							
		568**44-45-47	587**51-51-53	592**52-53-55							
55A	587	566*/37-37-39	579*/38-38-41	583*/39-39-41							
		581**45-46-48	600**52-52-54	607**54-54-56							
52A	602	580*/38-38-41	593*/40-40-42	597*/41-41-43							
		594**46-47-49	614**52-53-55	620**55-55-57							
49A	616	594*/40-40-43	607*/42-42-44	611*/42-42-45							
		607**46-47-50	627**53-54-56	634**56-56-58							
46A	631	608*/41-41-44	621*/43-43-46	626*/44-44-46							
		620**47-48-51	641**54-55-57	647**57-57-60							
43A	646	622*/43-43-46	636*/45-45-47	640*/45-45-48							
		633**48-49-52	655**55-56-58	662**57-58-61							
40	663	637*/44-45-48	651*/46-46-49	656*/47-47-50							
		647**49-50-53	670**56-57-59	677**58-59-62							
37	680	654*/46-46-50	668*/48-48-51	673*/49-49-52							
		660**49-50-53	686**57-58-60	693**59-60-63							
34	697	669*/47-48-51	684*/50-50-53	689*/50-50-53							
		671**48-49-52	700**57-58-61	709**60-61-64							
31	712	677B/48-49-52	698*/51-51-54	703*/52-52-55							
			710**56-57-60	720**59-60-63							
28	726	681B/48-49-53	712*/52-52-56	717*/53-53-56							
			720**56-57-60	731**59-60-63							
25	735	685B/48-49-53	720*/53-53-56	725*/54-54-57							
			727**56-57-60	738**59-60-63							
22	741	689B/48-49-54	726*/53-54-57	732*/54-54-58							
			733**56-57-60	743**59-60-63							
19	748	693B/48-50-54	733*/54-54-58	739*/55-55-58							
			739**56-57-60	749**59-60-63							
16	753	697B/49-50-55	737*/54-55-58	743*/55-55-59							
			743**56-57-61	754**59-60-64							
13	753	700B/49-51-55	738*/54-55-58	743*/55-55-59							
			745**57-58-61	756**60-61-64							
10	753	704B/50-51-55	739*/54-55-58	744*/55-56-59							
			747**58-59-62	758**61-62-65							
5	754	710B/50-52-56	740*/54-55-58	745*/55-56-59							
			750**59-60-63	761**62-63-66							
0	755	716B/51-52-56	741*/55-55-59	746*/56-56-59							
-5	756	722B/52-53-57	742*/55-55-59	747*/56-56-59							
-10	756	726*/52-53-57	743*/55-55-59	748*/56-56-59							
		727**53-54-58	761**63-64-67	772**66-67-70							

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 800 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY			RUNWAY SLOPES ARE 0.51 PERCENT FOR TODA AND 0.51 PERCENT FOR ASDA			LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M		
	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
36	463	11278	0	325	7764	0	59	924	0
	16	290	0	62	981	0	410	9190	0
	430	7280	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36/A7 ZLLL

ZHONGCHUANG
LZ/NORTHWEST

DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
C 100KG -10 0 10

61								
58A	573	546*/34-34-37	560*/36-36-38	565*/37-37-39				
			567**40-40-42	574**42-42-44				
55A	587	558*/35-35-38	575*/38-38-40	579*/38-38-41				
			580**41-41-43	587**43-43-45				
52A	602	570*/37-37-40	588*/39-39-42	593*/40-40-42				
			592**41-41-44	599**44-44-46				
49A	616	582F/38-38-41	602*/41-41-44	607*/42-42-44				
			605**42-42-45	612**44-44-47				
46A	631	592F/39-39-43	616*/42-42-45	621*/43-43-46				
			617**43-43-46	625**45-45-48				
43A	646	603F/40-40-44	630*/44-44-47	635*/45-45-47				
				638**46-46-49				
40	663	615F/41-42-45	644*/46-46-49	651*/46-46-49				
				653**47-47-50				
37	680	627F/42-43-47	659*/47-47-50	668*/48-48-51				
34	697	638F/43-44-48	674*/48-48-52	682*/49-49-53				
31	712	649F/44-45-50	687F/49-50-53	695*/51-51-54				
28	726	659F/45-46-51	697F/50-51-54	708*/52-52-55				
25	735	666F/46-47-52	705F/51-51-55	716*/52-53-56				
22	741	673F/46-48-52	711F/51-52-56	722*/53-53-57				
19	748	679F/47-48-53	718F/52-53-57	729*/54-54-57				
16	753	684F/47-49-53	724F/53-53-57	734*/54-54-58				
13	753	687F/48-49-54	727*/53-54-57	736*/54-55-58				
10	753	690F/48-49-54	728*/53-54-57	738*/54-55-58				
5	754	696F/49-50-55	732*/54-54-58	739*/55-55-58				
				742**56-57-61				
0	755	701F/49-51-55	735*/54-54-58	740*/55-55-59				
-5	756	707F/50-51-56	736*/54-55-58	742*/55-55-59				
-10	756	713F/51-52-56	737*/54-55-58	743*/55-55-59				
			742**56-57-60	752**59-59-63				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 770 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3360 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.51 PERCENT FOR TODA AND 0.51 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 36/A7 463 11278 0 325 7764 0 59 924 0
 16 290 0 62 981 0 410 9190 0
 430 7280 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6391 FT

RUNWAY 36/A8 ZLLL

*** FLAPS 01 *** AIR COND OFF ANTI-ICE OFF				ZHONGCHUANG LZ/NORTHWEST
737-800 CFM56-7B26				DATED 07-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	61
		-10 0 10		
58A	573	549*/35-35-37 555**38-38-40	562*/36-36-39 576**44-44-46	566*/37-37-39 582**46-46-48
55A	587	563*/36-36-39 567**38-38-41	576*/38-38-40 589**45-45-47	581*/39-39-41 596**47-47-49
52A	602	577*/38-38-41 580**39-39-42	590*/40-40-42 601**46-46-48	595*/40-40-43 609**48-48-50
49A	616	591*/39-39-42 592**40-40-43	604*/41-41-44 614**47-47-49	609*/42-42-44 622**49-49-51
46A	631	604*/41-41-44	618*/43-43-45 627**48-48-50	623*/43-43-46 635**50-50-52
43A	646	617*/42-42-46	633*/44-44-47 640**49-49-51	637*/45-45-48 648**51-51-53
40	663	631*/43-44-47	648*/46-46-49 655**49-49-52	653*/47-47-49 663**52-52-54
37	680	645*/45-45-49	665*/48-48-51 670**50-50-53	670*/48-48-51 678**53-53-55
34	697	659*/46-47-50	681*/49-49-52 685**51-51-54	686*/50-50-53 693**53-54-57
31	712	672F/47-48-52	695*/50-51-54 698**52-52-56	700*/51-51-54 707**54-55-58
28	726	681B/48-49-53	708*/52-52-55 710**52-53-56	713*/52-53-56 719**55-55-58
25	735	685B/48-49-53	716*/52-53-56 718**53-54-57	722*/53-53-57 727**55-56-59
22	741	689B/48-49-54	723*/53-53-57 725**54-54-58	728*/54-54-57 734**56-57-60
19	748	693B/48-50-54	730*/53-54-58 732**54-55-59	735*/54-55-58 741**57-58-61
16	753	697B/49-50-55	734*/54-54-58 737**55-56-59	739*/55-55-58 746**57-58-61
13	753	700B/49-51-55	734*/54-54-58 739**56-56-60	740*/55-55-58 748**58-59-62
10	753	704B/50-51-55	735*/54-55-58 741**56-57-61	741*/55-55-59 750**59-60-63
5	754	710B/50-52-56	736*/54-55-58 744**57-58-62	742*/55-55-59 753**60-61-64
0	755	716B/51-52-56	737*/54-55-58 747**58-60-63	743*/55-55-59 757**61-62-65
-5	756	721*/52-53-57	738*/54-55-58 751**60-61-64	744*/55-55-59 760**62-63-66
-10	756	722*/52-53-57 725**53-54-58	739*/55-55-58 754**61-62-65	745*/55-56-59 764**63-64-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 780 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	IS	3600 M LONG WITH	0 M OF CLEARWAY AND	0 M OF STOPWAY
RUNWAY SLOPES ARE	0.51 PERCENT FOR TODA AND	0.51 PERCENT FOR ASDA		
LINE-UP DISTANCES:	19 M FOR TODA,	35 M FOR ASDA	OBS	FROM LO-FT/M
RUNWAY	HT	DIST	OFFSET	HT
36/A8	463	11278	0	325 7764 0 59 924 0
	16	290	0	62 981 0 410 9190 0
	430	7280	0	

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 4636 FT

RUNWAY 14

ZLQY

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	XIFENG QY/NORTHWEST
737-800 CFM56-7B26			WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		DATED 10-JUN-2019
OAT	CLIMB	100KG	-10	0	10
61A	578	560F/29-30-33	586*/32-32-35 586**35-36-39	594*/32-32-35 593**38-39-41	
58A	593	570F/30-31-35	599*/33-34-37 599**36-36-39	607*/34-34-37 606**38-40-42	
55A	608	581F/31-32-36	612*/35-35-39 612**36-37-40	621*/35-35-39 619**39-40-43	
52A	623	592F/31-33-37	625*/36-37-40 625**37-38-41	634*/37-37-40 632**40-41-44	
49A	637	602F/32-34-38	638*/38-39-42	647*/38-39-42 646**41-42-45	
46A	653	613F/33-35-40	651F/39-40-44	660*/39-40-44 659**41-43-46	
43	669	625F/34-36-41	664F/40-41-45	675*/41-42-45 674**42-43-47	
40	687	638F/35-38-43	677F/41-42-46	691*/42-43-47 689**43-44-48	
37	705	650F/36-39-44	690F/42-43-48	705F/44-45-49	
34	721	661F/37-40-45	703F/43-45-49	717F/45-46-50	
31	736	671F/38-41-46	714F/44-46-50	729F/45-47-51	
28	746	679F/38-41-47	723F/44-46-51	738F/46-48-52	
25	755	686F/39-42-48	731F/45-47-52	746F/47-49-53	
22	762	693F/40-43-49	738F/45-48-53	754F/47-49-54	
19	765	698F/40-43-49	743F/46-48-53	759F/48-50-54	
16	766	701F/41-44-49	747F/46-49-53	763F/48-50-55	
13	766	705F/41-44-50	751F/47-49-54	766F/48-51-55	
10	766	708F/41-44-50	754F/47-49-54	770*/49-51-55 768**49-51-56	
5	767	714F/42-45-50	760F/48-50-54	774*/49-51-55 772**50-52-57	
0	768	719F/43-46-51	766*/48-51-55	778*/49-51-55 776**51-53-58	
-5	768	725F/43-46-51	770*/49-51-55 770**49-51-56	781*/49-51-55 780**52-55-59	
-10	769	731F/44-47-52	774*/49-51-55 774**50-53-57	784*/49-51-55 784**53-56-60	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.52 PERCENT FOR TODA AND -0.52 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

14 43 809 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 4636 FT

RUNWAY 32

ZLQY

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	XIFENG QY/NORTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	578	547F/28-28-32	581F/32-32-35	593F/32-32-35
			580**33-33-36	586**36-36-38
58A	593	558F/29-29-33	593F/34-34-37	605F/34-34-37
				599**36-36-39
55A	608	569F/30-30-35	604F/35-35-38	616F/35-35-39
				612**37-37-40
52A	623	579F/31-32-36	615F/36-36-40	627F/37-37-40
				625**38-38-41
49A	637	590F/32-33-37	626F/37-37-41	638F/39-39-42
46A	653	601F/33-34-38	637F/38-38-42	650F/40-40-43
43	669	612F/34-35-40	649F/39-39-44	663F/41-41-45
40	687	625F/35-36-41	662F/40-41-45	676F/42-42-46
37	705	637F/36-37-43	675F/41-42-46	689F/43-43-48
34	721	648F/37-38-44	687F/42-43-48	701F/44-44-49
31	736	658F/37-39-45	699F/43-44-49	713F/45-45-50
28	746	666F/38-40-46	707F/44-45-50	722F/46-46-51
25	755	673F/39-41-47	715F/44-45-50	730F/46-47-52
22	762	679F/39-41-47	722F/45-46-51	737F/47-48-52
19	765	684F/40-42-48	727F/45-46-52	742F/47-48-53
16	766	687F/40-42-48	731F/46-47-52	746F/48-48-53
13	766	690F/41-42-48	734F/46-47-52	749F/48-49-53
10	766	694F/41-43-49	737F/47-48-53	753F/49-49-54
5	767	699F/42-43-49	743F/47-48-53	759F/49-50-54
0	768	705F/42-44-50	749F/48-49-54	765F/50-50-55
-5	768	710F/43-45-50	755F/49-49-54	771F/50-51-55
-10	769	716F/44-45-51	762F/49-50-55	778F/50-51-55
				774**52-52-57

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.52 PERCENT FOR TODA AND 0.52 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

32 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 05L ZLXY

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	XIANGYANG XA/NORTHWEST	
737-800		CFM56-7B26	DATED 10-JUN-2019			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10	0	10
61A	638	634F/37-38-42	673F/39-39-42	686F/39-39-42		
				656**45-46-49	662**48-49-52	
58A	654	646F/38-39-43	686F/40-40-44	700F/40-40-44		
				671**46-47-50	677**49-50-53	
55A	670	658F/39-40-44	700F/42-42-45	714F/42-42-45		
				685**47-48-51	692**49-51-54	
52A	686	671F/40-42-46	713F/43-43-47	727F/43-43-47		
				700**48-49-52	707**50-51-55	
49	704	684F/41-43-47	727F/44-45-49	742F/45-45-49		
				716**48-49-53	723**51-52-56	
46	723	698F/42-44-49	742F/46-47-51	757F/46-47-51		
				733**49-50-54	741**52-53-57	
43	742	713F/43-45-50	757F/47-48-52	773F/48-48-52		
				750**50-51-55	758**53-54-58	
40	761	727F/44-46-51	772F/49-50-54	788F/49-50-54		
				767**50-52-56	775**53-55-59	
37	781	742F/45-48-53	788F/50-52-56	804F/50-52-56		
				784**51-53-57	790**53-55-59	
34	800	755F/46-49-54	803F/50-52-57	819F/51-52-57		
31	817	767F/47-50-55	817F/50-52-57	833F/50-52-57		
28	832	777F/47-51-56	828F/49-52-57	846F/50-52-57		
25	838	783F/48-51-57	835F/49-52-58	852F/50-52-58		
22	838	787F/48-51-57	839F/49-52-58	856F/50-52-58		
19	839	791F/48-52-58	843F/49-52-58	861F/50-52-58		
16	839	794F/48-52-58	847F/49-52-58	862F/50-52-58		
13	840	798F/48-52-58	851F/49-52-58	862F/50-52-58		
10	841	802F/48-52-58	855F/49-52-58	862F/50-52-58		
5	841	808F/48-52-58	862F/49-52-58	862F/50-52-58		
0	842	815F/48-52-58	862F/49-52-58	862F/50-52-58		
-5	843	821F/48-52-58	862F/50-52-58	862F/50-52-58		
-10	843	828F/49-52-58	862F/50-52-58	862F/50-52-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.07 PERCENT FOR TODA AND 0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 05L/A8 ZLXY

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	XIANGYANG XA/NORTHWEST	DATED 10-JUN-2019
737-800		CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	100KG	-10	0	10		
61A	638	624F/36-37-41	663F/39-39-42	676F/39-39-42	651**43-44-47	657**46-47-50	
58A	654	635F/37-38-42	675F/40-40-44	689F/40-40-44	665**44-45-48	672**47-47-51	
55A	670	647F/38-39-43	688F/42-42-45	703F/42-42-45	680**45-45-49	687**48-48-52	
52A	686	659F/39-40-45	701F/43-43-47	716F/43-43-47	694**46-46-50	701**48-49-53	
49	704	673F/40-41-46	715F/44-45-49	730F/45-45-49	710**46-47-51	718**49-50-54	
46	723	687F/41-43-47	730F/46-47-51	745F/46-47-51	727**47-48-52	735**50-51-55	
43	742	701F/42-44-49	745F/47-48-52	760F/48-48-52	743**48-49-53	752**50-52-56	
40	761	715F/43-45-50	760F/49-50-54	775F/49-50-54		769**51-53-57	
37	781	729F/44-46-52	775F/49-51-56	791F/50-52-56		786**52-54-58	
34	800	743F/45-47-53	790F/50-52-57	806F/51-52-57			
31	817	754F/45-48-54	803F/50-52-57	820F/50-52-57			
28	832	764F/46-49-55	815F/49-52-57	832F/50-52-57			
25	838	770F/46-50-56	822F/49-52-58	839F/50-52-58			
22	838	774F/47-50-56	825F/49-52-58	843F/50-52-58			
19	839	777F/47-50-57	829F/49-52-58	847F/50-52-58			
16	839	781F/47-51-57	833F/49-52-58	851F/50-52-58			
13	840	784F/48-51-57	837F/49-52-58	855F/50-52-58			
10	841	788F/48-52-57	841F/49-52-58	859F/50-52-58			
5	841	795F/48-52-58	848F/49-52-58	862F/50-52-58			
0	842	801F/48-52-58	855F/49-52-58	862F/50-52-58			
-5	843	807F/48-52-58	862F/50-52-58	862F/50-52-58			
-10	843	814F/49-52-58	862F/50-52-58	862F/50-52-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2900 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE 0.07 PERCENT FOR TODA AND 0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05L/A8 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 05R ZLXY

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	XIANGYANG XA/NORTHWEST
737-800		CFM56-7B26	DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10 0 10			
61A	638	714F/38-39-42 670**51-53-56	753F/38-39-42 670**51-53-56	765F/39-39-42 670**52-53-56	
58A	654	728F/39-40-44 687**52-55-58	769F/40-40-44 687**53-55-58	781F/40-40-44 687**53-55-58	
55A	670	742F/41-42-45 700**52-55-58	784F/41-42-45 705**54-57-60	797F/42-42-45 705**55-57-60	
52A	686	757F/42-43-47 712**51-54-57	799F/43-43-47 722**56-59-62	812F/43-43-47 722**56-59-62	
49	704	772F/43-45-49 724**50-53-56	816F/44-45-49 741**58-60-64	830F/44-45-49 741**58-60-64	
46	723	775B/45-47-51 736**49-52-55	831F/46-47-51 761**59-62-66	846F/46-47-51 761**59-62-66	
43	742	766B/46-48-52 748**48-51-55	845F/47-48-52 776**59-62-65	861F/47-48-52 781**61-64-68	
40	761	760B/47-50-54	860F/48-50-54 790**58-61-64	862F/49-50-54 790**58-61-65	
37	781	765B/47-50-55	862F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59	
34	800	770B/47-50-55	862F/50-52-57	862F/50-52-57	
31	817	775B/47-51-56	862F/50-52-57	862F/50-52-57	
28	832	780B/47-51-57	862F/49-52-57	862F/49-52-57	
25	838	784B/47-51-57	862F/49-52-58	862F/49-52-58	
22	838	788B/48-52-57	862F/49-52-58	862F/49-52-58	
19	839	793B/48-52-58	862F/49-52-58	862F/49-52-58	
16	839	801B/48-52-58	862F/49-52-58	862F/49-52-58	
13	840	809B/48-52-58	862F/49-52-58	862F/49-52-58	
10	841	818B/48-52-58	862F/49-52-58	862F/49-52-58	
5	841	832B/48-52-58	862F/49-52-58	862F/49-52-58	
0	842	846B/48-52-58	862F/49-52-58	862F/50-52-58	
-5	843	860B/48-52-58	862F/49-52-58	862F/50-52-58	
-10	843	862F/48-52-58	862F/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 120 M OF STOPWAY
 RUNWAY SLOPES ARE -0.14 PERCENT FOR TODA AND -0.14 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 05R/D7 ZLXY

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			XIANGYANG XA/NORTHWEST			
737-800		CFM56-7B26			DATED 10-JUN-2019			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE								
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)								
C	100KG	-10	0	10				
61A	638	696F/38-39-42 667**49-51-54	736F/38-39-42 670**51-53-56	748F/39-39-42 670**52-53-56				
58A	654	710F/39-40-44 682**50-52-55	750F/40-40-44 687**53-55-58	764F/40-40-44 687**53-55-58				
55A	670	724F/41-42-45 697**50-53-56	765F/41-42-45 705**54-57-60	779F/42-42-45 705**55-57-60				
52A	686	738F/42-43-47 712**51-54-57	779F/43-43-47 722**56-59-62	794F/43-43-47 722**56-59-62				
49	704	753F/43-45-49 724**50-53-56	795F/44-45-49 741**58-60-64	810F/44-45-49 741**58-60-64				
46	723	769F/45-47-51 736**49-52-55	812F/46-47-51 761**59-62-66	827F/46-47-51 761**59-62-66				
43	742	766B/46-48-52 748**48-51-55	828F/47-48-52 776**59-62-65	844F/47-48-52 781**61-64-68				
40	761	760B/47-50-54	843F/48-50-54 790**58-61-64	859F/49-50-54 790**58-61-65				
37	781	765B/47-50-55	858F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59				
34	800	770B/47-50-55 775B/47-51-56	862F/50-52-57 862F/50-52-57	862F/50-52-57 862F/50-52-57				
31	817	780B/47-51-57	862F/49-52-57	862F/49-52-57				
28	832	784B/47-51-57	862F/49-52-58	862F/49-52-58				
25	838	788B/48-52-57	862F/49-52-58	862F/49-52-58				
22	838	793B/48-52-58	862F/49-52-58	862F/49-52-58				
19	839	801B/48-52-58	862F/49-52-58	862F/49-52-58				
16	839	809B/48-52-58	862F/49-52-58	862F/49-52-58				
13	840	818B/48-52-58	862F/49-52-58	862F/49-52-58				
10	841	832B/48-52-58	862F/49-52-58	862F/49-52-58				
5	841	846B/48-52-58	862F/49-52-58	862F/49-52-58				
0	842	860B/48-52-58	862F/49-52-58	862F/50-52-58				
-5	843	862F/48-52-58	862F/49-52-58	862F/50-52-58				
-10	843	862F/48-52-58	862F/49-52-58	862F/50-52-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 120 M OF STOPWAY
 RUNWAY SLOPES ARE -0.14 PERCENT FOR TODA AND -0.14 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05R/D7 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 23L ZLXY

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	XIANGYANG XA/NORTHWEST
737-800		CFM56-7B26	DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10 0 10			
61A	638	709F/38-39-42 670**51-53-56	744F/39-39-42 670**52-53-56	756F/39-39-42 670**52-53-56	
58A	654	723F/40-40-44 687**53-55-58	759F/40-40-44 687**53-55-58	771F/40-40-44 687**54-55-58	
55A	670	737F/41-42-45 701**52-55-58	775F/42-42-45 705**55-57-60	787F/42-42-45 705**55-57-60	
52A	686	752F/42-43-47 713**52-54-57	790F/43-43-47 722**56-59-62	803F/43-43-47 722**57-59-62	
49	704	767F/44-45-49 724**51-53-56	807F/45-45-49 741**58-60-64	820F/45-45-49 741**58-60-64	
46	723	777B/45-47-51 737**50-52-55	825F/46-47-51 761**60-62-66	838F/46-47-51 761**60-62-66	
43	742	768B/47-48-52 749**49-51-55	840F/47-48-52 776**59-62-66	855F/48-48-52 781**62-64-68	
40	761	760B/48-50-54	855F/49-50-54 790**58-61-65	862F/49-50-54 790**58-61-65	
37	781	766B/48-50-55	862F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59	
34	800	771B/48-50-56	862F/50-52-57	862F/51-52-57	
31	817	776B/48-51-56	862F/50-52-57	862F/50-52-57	
28	832	781B/48-51-57	862F/49-52-57	862F/50-52-57	
25	838	785B/48-51-57	862F/49-52-58	862F/50-52-58	
22	838	789B/48-52-57	862F/49-52-58	862F/50-52-58	
19	839	796B/48-52-58	862F/49-52-58	862F/50-52-58	
16	839	804B/48-52-58	862F/49-52-58	862F/50-52-58	
13	840	812B/48-52-58	862F/49-52-58	862F/50-52-58	
10	841	820B/48-52-58	862F/49-52-58	862F/50-52-58	
5	841	835B/48-52-58	862F/49-52-58	862F/50-52-58	
0	842	849B/49-52-58	862F/50-52-58	862F/50-52-58	
-5	843	862F/49-52-58	862F/50-52-58	862F/50-52-58	
-10	843	862F/49-52-58	862F/50-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 120 M OF STOPWAY
 RUNWAY SLOPES ARE 0.14 PERCENT FOR TODA AND 0.14 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23L NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 23L/D2 ZLXY

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			XIANGYANG XA/NORTHWEST			
737-800		CFM56-7B26			DATED 10-JUN-2019			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE								
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)								
C	100KG	-10	0	10				
61A	638	691F/38-39-42 665**48-50-53	728F/39-39-42 670**52-53-56	739F/39-39-42 670**52-53-56				
58A	654	705F/40-40-44 680**49-51-54	743F/40-40-44 687**53-55-58	755F/40-40-44 687**54-55-58				
55A	670	719F/41-42-45 696**50-52-55	758F/42-42-45 705**55-57-60	770F/42-42-45 705**55-57-60				
52A	686	733F/42-43-47 710**51-53-56	773F/43-43-47 722**56-59-62	785F/43-43-47 722**57-59-62				
49	704	748F/44-45-49 724**51-53-56	790F/45-45-49 741**58-60-64	802F/45-45-49 741**58-60-64				
46	723	764F/45-47-51 737**50-52-55	806F/46-47-51 761**60-62-66	820F/46-47-51 761**60-62-66				
43	742	768B/47-48-52 749**49-51-55	823F/47-48-52 776**59-62-66	838F/48-48-52 781**62-64-68				
40	761	760B/48-50-54	838F/49-50-54 790**58-61-65	853F/49-50-54 790**58-61-65				
37	781	766B/48-50-55	852F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59				
34	800	771B/48-50-56	862F/50-52-57	862F/51-52-57				
31	817	776B/48-51-56	862F/50-52-57	862F/50-52-57				
28	832	781B/48-51-57	862F/49-52-57	862F/50-52-57				
25	838	785B/48-51-57	862F/49-52-58	862F/50-52-58				
22	838	789B/48-52-57	862F/49-52-58	862F/50-52-58				
19	839	796B/48-52-58	862F/49-52-58	862F/50-52-58				
16	839	804B/48-52-58	862F/49-52-58	862F/50-52-58				
13	840	812B/48-52-58	862F/49-52-58	862F/50-52-58				
10	841	820B/48-52-58	862F/49-52-58	862F/50-52-58				
5	841	835B/48-52-58	862F/49-52-58	862F/50-52-58				
0	842	849B/49-52-58	862F/50-52-58	862F/50-52-58				
-5	843	862F/49-52-58	862F/50-52-58	862F/50-52-58				
-10	843	862F/49-52-58	862F/50-52-58	862F/50-52-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 120 M OF STOPWAY
 RUNWAY SLOPES ARE 0.14 PERCENT FOR TODA AND 0.14 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23L/D2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 23R ZLXY

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	XIANGYANG XA/NORTHWEST
737-800		CFM56-7B26	DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10	
61A	638	636F/37-38-42	675F/38-39-42	689F/39-39-42	
			657**45-47-50	663**48-49-52	
58A	654	648F/38-39-43	689F/40-40-44	702F/40-40-44	
			672**46-47-51	678**49-50-53	
55A	670	660F/39-41-45	702F/41-42-45	716F/42-42-45	
			686**47-48-52	693**50-51-54	
52A	686	673F/40-42-46	715F/43-43-47	729F/43-43-47	
			701**48-49-52	708**50-52-55	
49	704	686F/41-43-47	730F/44-45-49	744F/45-45-49	
			717**49-50-54	725**51-53-56	
46	723	701F/42-44-49	744F/46-47-51	759F/46-47-51	
			734**49-51-55	742**52-54-57	
43	742	715F/43-45-50	759F/47-48-52	775F/47-48-52	
			751**50-52-56	759**53-55-58	
40	761	730F/44-47-52	775F/48-50-54	791F/49-50-54	
			769**51-53-57	777**53-56-59	
37	781	744F/45-48-53	790F/50-52-56	806F/50-52-56	
			786**51-53-58	790**53-55-59	
34	800	757F/46-49-54	805F/50-52-57	822F/50-52-57	
31	817	769F/47-50-56	819F/50-52-57	836F/50-52-57	
28	832	780F/47-51-57	831F/49-52-57	848F/50-52-57	
25	838	784B/47-51-57	837F/49-52-58	855F/49-52-58	
22	838	788B/48-52-57	841F/49-52-58	859F/49-52-58	
19	839	793F/48-52-58	845F/49-52-58	862F/49-52-58	
16	839	797F/48-52-58	849F/49-52-58	862F/49-52-58	
13	840	800F/48-52-58	853F/49-52-58	862F/49-52-58	
10	841	804F/48-52-58	857F/49-52-58	862F/49-52-58	
5	841	811F/48-52-58	862F/49-52-58	862F/50-52-58	
0	842	817F/48-52-58	862F/49-52-58	862F/50-52-58	
-5	843	824F/48-52-58	862F/49-52-58	862F/50-52-58	
-10	843	830F/48-52-58	862F/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY
 RUNWAY SLOPES ARE -0.07 PERCENT FOR TODA AND -0.07 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 23R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1575 FT

RUNWAY 23R/A2 ZLXY

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	XIANGYANG XA/NORTHWEST	DATED 10-JUN-2019
737-800		CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	100KG	-10	0	10		
61A	638	615F/35-36-40	653F/38-39-42	667F/39-39-42	646**41-42-45	653**44-45-48	
58A	654	626F/36-37-41	666F/40-40-44	680F/40-40-44	661**42-43-46	667**45-46-49	
55A	670	638F/37-38-42	679F/41-42-45	693F/42-42-45	675**43-43-47	682**46-46-50	
52A	686	650F/38-39-44	691F/43-43-47	706F/43-43-47	689**44-44-48	697**46-47-51	
49	704	663F/39-40-45	705F/44-45-49	720F/45-45-49	713**47-48-52		
46	723	677F/40-42-47	720F/45-46-50	735F/46-47-51	729**48-49-53		
43	742	690F/41-43-48	734F/46-47-52	750F/47-48-52	746**49-50-54		
40	761	705F/42-44-50	749F/47-49-53	765F/49-50-54	763**49-51-55		
37	781	719F/43-45-51	764F/48-50-55	780F/50-52-56			
34	800	731F/43-46-52	778F/49-51-56	795F/50-52-57			
31	817	743F/44-47-53	792F/50-52-57	808F/50-52-57			
28	832	753F/44-48-54	804F/49-52-57	820F/50-52-57			
25	838	758F/45-48-55	810F/49-52-58	827F/49-52-58			
22	838	762F/45-49-55	814F/49-52-58	831F/49-52-58			
19	839	765F/46-49-56	818F/49-52-58	835F/49-52-58			
16	839	769F/46-50-56	822F/49-52-58	839F/49-52-58			
13	840	773F/46-50-56	826F/49-52-58	843F/49-52-58			
10	841	776F/47-50-56	830F/49-52-58	847F/49-52-58			
5	841	783F/47-51-57	837F/49-52-58	855F/50-52-58			
0	842	789F/48-52-57	843F/49-52-58	862F/50-52-58			
-5	843	795F/48-52-58	850F/49-52-58	862F/50-52-58			
-10	843	802F/48-52-58	857F/49-52-58	862F/50-52-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 0 M OF CLEARWAY AND 60 M OF STOPWAY

RUNWAY SLOPES ARE -0.07 PERCENT FOR TODA AND -0.07 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

23R/A2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3894 FT

RUNWAY 16

ZLYL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

YUYANG
YL/NORTHWEST

737-800 CFM56-7B26

DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

OAT	CLIMB	100KG	-10	0	10
61A	592	599*/33-34-37	617*/33-34-37	623*/34-34-37	
		600**36-37-40	618**44-46-49	621**46-48-51	
58A	607	613*/34-35-39	632*/35-35-39	637*/35-35-39	
		614**37-38-41	633**45-47-50	637**48-50-53	
55A	622	627*/36-37-40	646*/36-37-40	652*/37-37-40	
		627**38-39-43	647**46-48-51	652**49-51-54	
52A	638	640*/37-39-42	661*/38-39-42	667*/38-39-42	
		641**39-40-44	661**47-48-52	666**49-51-54	
49A	653	654*/39-40-44	675*/39-40-44	682*/40-40-44	
		654**40-41-45	676**47-49-52	681**50-52-55	
46	669	668*/40-42-45	691*/41-42-45	697*/41-42-45	
			690**48-50-53	696**51-53-56	
43	687	684*/41-43-47	707*/42-43-47	714*/43-43-47	
			706**49-51-55	713**52-54-57	
40	704	698F/42-44-48	724*/44-45-49	731*/44-45-49	
			723**50-52-56	730**52-55-58	
37	722	711F/43-45-50	741*/45-47-51	748*/45-47-51	
			739**50-53-57	746**53-56-59	
34	740	725F/44-47-51	757*/46-48-52	764*/47-48-52	
			755**51-54-58	763**54-57-60	
31	755	737F/45-48-52	770*/47-50-54	778*/48-50-54	
			769**52-54-58	776**54-57-61	
28	767	742B/45-48-53	782*/48-51-55	789*/49-51-55	
			780**52-55-59	787**55-58-62	
25	776	746B/45-48-53	791*/49-51-56	798*/49-51-56	
			789**53-56-60	790**53-56-60	
22	783	751B/45-49-54	798*/50-52-56	806*/50-52-56	
			790**52-54-59	790**52-54-59	
19	783	754B/46-49-54	799*/50-52-56	807*/50-52-56	
			790**52-54-59	790**52-54-59	
16	784	758B/46-49-54	801*/50-52-57	809*/50-52-57	
			790**51-54-59	790**52-54-59	
13	784	762B/47-50-55	803*/50-52-57	811*/50-52-57	
			790**51-54-58	790**52-54-58	
10	784	766B/47-50-55	804*/50-52-57	812*/50-52-57	
			790**51-54-58	790**52-54-58	
5	785	773B/48-51-56	807*/50-52-57	815*/50-52-57	
			790**51-54-58	790**52-54-58	
0	786	779B/48-52-56	810*/50-52-57	818*/50-52-57	
			790**51-54-58	790**52-54-58	
-5	786	787B/49-52-57	813*/50-52-57	820*/50-52-57	
			790**51-54-58	790**51-54-58	
-10	787	791*/49-52-57	815*/50-52-57	823*/51-52-57	
			790**50-53-58	790**51-53-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.35 PERCENT FOR TODA AND -0.35 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
16 49 1050 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3894 FT

RUNWAY 34

ZLYL

		AIR COND OFF	ANTI-ICE OFF	YUYANG YL/NORTHWEST		
737-800 CFM56-7B26				DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE						
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
C 100KG		-10	0	10		
61A 592	601F/34-34-37	636F/34-34-37	646F/34-34-37			
	597**35-36-39	614**43-44-46	619**46-47-49			
58A 607	613F/35-35-39	648F/35-35-39	660F/35-35-39			
	610**36-37-40	628**44-45-47	633**47-47-50			
55A 622	624F/37-37-40	661F/37-37-40	673F/37-37-40			
	623**37-37-41	642**45-45-48	648**47-48-51			
52A 638	636F/38-38-42	674F/39-39-42	686F/39-39-42			
		656**45-46-49	662**48-49-52			
49A 653	647F/39-39-43	686F/40-40-44	699F/40-40-44			
		670**46-47-50	677**49-50-53			
46 669	660F/40-41-45	700F/42-42-45	713F/42-42-45			
		685**47-48-51	691**50-51-54			
43 687	673F/41-42-46	714F/43-43-47	728F/43-43-47			
		701**48-49-52	708**50-52-55			
40 704	687F/42-43-47	729F/45-45-49	743F/45-45-49			
		717**49-50-53	724**51-52-56			
37 722	700F/43-44-49	743F/46-47-51	757F/46-47-51			
		733**49-50-54	740**52-53-57			
34 740	714F/44-45-50	757F/47-48-52	772F/48-48-52			
		749**50-51-55	757**53-54-58			
31 755	726F/45-46-51	769F/48-50-54	784F/49-50-54			
		763**51-52-56	770**53-55-59			
28 767	735F/45-47-52	779F/49-51-55	795F/50-51-55			
		774**51-53-57	782**54-56-60			
25 776	743F/46-48-53	788F/50-51-56	804F/50-51-56			
		783**52-54-58	790**54-56-60			
22 783	749F/46-48-54	796F/51-52-56	812F/51-52-56			
		790**53-54-59	790**53-54-59			
19 783	753F/47-49-54	799F/51-52-56	815F/51-52-56			
		790**53-54-59	790**53-54-59			
16 784	756F/47-49-54	803F/51-52-57	819F/51-52-57			
		790**53-54-59	790**53-54-59			
13 784	759F/47-50-55	807F/51-52-57	823F/51-52-57			
		790**52-54-58	790**53-54-58			
10 784	763F/48-50-55	811F/51-52-57	827F/51-52-57			
		790**52-54-58	790**53-54-58			
5 785	769F/48-50-55	817F/51-52-57	833F/51-52-57			
		790**52-54-58	790**53-54-58			
0 786	775F/49-51-56	824F/51-52-57	839F/51-52-57			
		790**52-54-58	790**53-54-58			
-5 786	781F/50-52-56	830F/51-52-57	845F/51-52-57			
		790**52-54-58	790**53-54-58			
-10 787	787F/50-52-57	836F/51-52-57	851F/52-52-57			
		790**52-53-58	790**53-53-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.35 PERCENT FOR TODA AND 0.35 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 4436 FT

RUNWAY 12

ZJPMM

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF JINGMAIJICHANG
 737-800 CFM56-7B26 LC/SOUTHWEST
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	581	521*/24-25-29 526**27-28-32	536*/27-27-31 548**33-34-38	541*/27-27-31 555**36-37-40
58A	596	534*/25-26-31 537**27-28-33	549*/28-28-32 561**34-35-39	555*/29-29-33 568**37-38-41
55A	612	547*/27-28-32 549**28-29-34	563*/30-30-34 573**35-36-40	568*/30-30-35 581**37-38-42
52A	627	560*/28-29-34 561**29-30-34	576*/31-31-36 585**36-36-41	582*/32-32-36 594**38-39-43
49A	642	573F/29-30-35	590*/32-33-37 598**36-37-42	595*/33-33-38 606**39-40-44
46A	657	583F/30-31-37	603*/34-34-39 610**37-38-43	609*/35-35-39 619**39-40-45
43	674	595F/31-33-38	619*/35-36-41 624**38-39-44	624*/36-36-41 633**40-41-46
40	692	607F/32-34-40	634*/37-37-42 638**39-40-45	640*/38-38-43 647**41-42-47
37	709	617F/33-35-41	649*/38-39-44 652**39-40-46	655*/39-39-45 661**42-43-48
34	726	628F/34-36-42	663*/39-40-46 665**40-41-47	669*/40-41-46 675**43-44-49
31	741	637F/35-37-43	676*/40-41-47 678**41-42-47	683*/41-42-47 687**43-44-50
28	751	645F/35-37-44	685*/41-42-48 686**42-43-48	692*/42-43-48 696**44-45-50
25	760	651F/36-38-45	693*/42-43-49	700*/43-44-49 704**45-46-51
22	768	657F/36-39-46	700*/42-43-49 701**43-44-50	706*/43-44-50 711**45-46-52
19	770	661F/37-39-46	702*/43-44-49 704**43-45-50	709*/44-44-50 714**46-47-53
16	770	665F/37-39-46	703*/43-44-50 706**44-45-51	709*/44-44-50 716**46-48-53
13	771	668F/38-40-46	703*/43-44-50 708**44-46-52	710*/44-44-50 718**47-48-54
10	771	671F/38-40-47	704*/43-44-50 709**45-47-52	710*/44-45-50 720**48-49-54
5	772	677F/39-41-47	705*/43-44-50 712**46-48-53	711*/44-45-50 723**49-50-56
0	773	682F/40-41-48	706*/43-44-50 715**47-49-54	712*/44-45-50 726**50-51-57
-5	773	686*/40-42-48	706*/43-44-50 718**48-50-55	713*/44-45-51 729**51-53-58
-10	774	687*/40-42-48 690**41-43-50	707*/43-44-50 721**49-51-57	714*/44-45-51 732**52-54-59

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 920 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

**=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.53 PERCENT FOR TODA AND 0.53 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 12 98 1540 0 157 2270 0 285 3985 0
 633 7420 0 285 4660 0 328 7277 0
 171 2771 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 4436 FT

RUNWAY 30 ZPJM

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	JINGMAIJICHANG LC/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10 0 10			
61A 581	543F/26-28-32	578F/32-32-35	585*/33-33-36	586**34-34-37
58A 596	554F/27-29-33	589F/33-33-37	600*/34-34-37	599**35-35-38
55A 612	564F/28-30-34	600F/34-34-38	612F/35-36-39	
52A 627	574F/29-31-35	611F/35-35-39	623F/37-37-40	
49A 642	585F/30-32-37	622F/36-37-40	634F/37-38-42	
46A 657	595F/31-33-38	633F/37-38-42	646F/38-39-43	
43 674	607F/32-34-39	645F/38-39-43	659F/39-40-44	
40 692	618F/33-35-41	658F/39-40-45	672F/40-42-46	
37 709	629F/33-36-42	671F/40-41-46	685F/41-43-47	
34 726	639F/34-37-43	683F/40-42-47	697F/42-44-49	
31 741	649F/35-38-44	694F/41-43-48	709F/43-45-50	
28 751	656F/36-39-45	703F/42-44-49	717F/44-46-51	
25 760	663F/36-39-46	710F/43-45-50	725F/44-46-51	
22 768	670F/37-40-47	718F/43-45-51	733F/45-47-52	
19 770	674F/37-40-47	722F/44-46-51	737F/45-47-53	
16 770	677F/38-41-47	725F/44-46-52	741F/46-48-53	
13 771	681F/38-41-48	729F/44-47-52	744F/46-48-53	
10 771	684F/39-42-48	732F/45-47-52	748F/47-49-53	
5 772	690F/39-42-48	738F/45-47-53	754F/47-49-54	
0 773	696F/40-43-49	744F/46-48-53	760F/48-50-54	
-5 773	702F/41-44-50	750F/47-49-54	767F/49-50-55	
-10 774	708F/41-44-50	756F/47-49-54	773F/49-51-56	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 650 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.53 PERCENT FOR TODA AND -0.53 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 30 436 8500 0 348 8290 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 2877 FT

RUNWAY 23

ZPMS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF MANGSHI JICHANG

LJ/SOUTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	611	530*/24-25-30 544**32-36-40	546*/27-27-32 563**37-39-44	551*/28-28-33 569**38-40-44
58A	627	543*/25-27-32 556**33-36-41	560*/28-29-34 577**38-41-45	565*/29-30-34 583**40-42-46
55A	643	556*/27-28-34 569**34-37-42	573*/30-30-36 591**40-43-47	579*/31-31-36 597**41-44-48
52A	659	570*/28-30-35 582**34-37-42	587*/31-32-37 605**41-44-49	593*/32-33-38 611**43-45-50
49A	674	583*/29-31-37 594**35-38-43	601*/32-33-39 618**43-46-50	607*/33-34-39 625**44-47-51
46	692	598*/30-33-39 608**35-39-44	616*/34-35-41 633**43-46-51	622*/35-36-41 641**46-49-53
43	710	613*/32-34-40 621**36-39-45	631*/35-36-42 647**44-47-52	637*/36-37-43 656**47-50-55
40	729	627*/33-36-42 635**37-40-46	646*/36-38-44 662**45-48-53	652*/38-39-45 671**48-51-56
37	748	642*/34-37-44 648**38-41-47	661*/38-39-46 677**46-49-54	668*/39-40-46 686**48-52-57
34	765	655*/36-38-45 661**38-42-48	675*/39-41-47 690**46-50-55	681*/40-41-48 699**49-52-58
31	781	667*/36-39-47 672**39-42-49	687*/40-42-48 702**47-50-56	694*/41-42-49 712**49-53-59
28	794	678*/37-40-48 683**39-43-50	699*/41-43-49 713**47-51-57	705*/42-44-50 723**50-54-59
25	805	687*/38-41-49 691**40-44-51	708*/41-44-50 722**48-51-58	715*/42-44-51 732**50-54-60
22	808	689*/38-41-49 694**41-44-51	710*/42-44-51 725**48-52-58	717*/43-45-51 735**51-55-61
19	808	690*/38-42-49 696**41-45-52	710*/42-44-51 727**49-53-59	717*/43-45-51 736**51-55-61
16	809	690*/38-42-49 697**42-46-52	711*/42-44-51 728**49-53-59	718*/43-45-51 738**52-56-62
13	809	690*/39-42-49 699**42-46-53	711*/42-44-51 729**50-54-60	718*/43-45-51 739**53-57-63
10	810	691*/39-42-49 700**43-47-54	712*/42-44-51 731**51-55-61	719*/43-45-51 741**53-58-63
5	810	691*/39-42-49 703**44-48-55	713*/42-44-51 733**52-56-62	720*/43-45-51 743**54-59-64
0	811	692*/39-42-49 705**45-49-56	713*/42-44-51 735**53-57-63	720*/43-45-52 744**54-59-64
-5	812	692*/39-42-49 708**46-50-57	714*/42-44-51 737**53-58-64	721*/43-45-52 744**55-59-65
-10	812	693*/39-42-49 709**47-52-58	714*/42-44-51 737**54-58-64	721*/43-45-52 745**55-59-65

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1610 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.16 PERCENT FOR TODA AND -0.16 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
23	331	5490	0	482	8189	0	1122	12387	0
	1247	12500	0						

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 03

ZPPP

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST	
737-800 CFM56-7B26			DATED 10-JUN-2019			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10		
61	58		55A 553	558*/29-30-32 568**39-41-44	572*/30-30-32 581**42-43-46	576*/30-30-32 581**42-43-46
52A	567		52A 567	571*/30-31-34 581**41-43-46	585*/31-31-34 596**44-45-48	589*/31-31-34 596**44-45-48
49A	581		49A 581	584*/32-33-36 594**42-44-47	599*/33-33-36 610**45-47-50	603*/33-33-36 610**45-47-50
46A	595		46A 595	597*/33-34-37 606**43-46-49	612*/34-34-37 625**47-49-51	617*/34-34-37 625**47-49-51
43A	609		43A 609	610*/35-36-39 620**45-47-51	626*/35-36-39 640**48-50-53	631*/36-36-39 640**48-50-53
40	624		40 624	624*/36-37-41 633**45-47-50	640*/37-37-41 654**50-52-55	645*/37-37-41 656**50-52-55
37	640		37 640	639*/38-39-42 648**46-49-53	656*/38-39-42 670**51-53-57	661*/39-39-42 673**52-54-57
34	656		34 656	654*/39-40-44 663**46-49-53	672*/40-41-44 685**53-55-58	677*/40-41-44 690**53-56-59
31	671		31 671	668*/40-42-45 675**45-48-51	686*/41-42-46 700**54-56-60	691*/41-42-46 706**55-57-60
28	684		28 684	680*/41-43-47 686**45-47-51	699*/42-43-47 713**54-56-60	704*/43-43-47 720**56-59-62
25	694		25 694	690*/42-44-48 694**44-46-50	709*/43-44-48 722**53-56-59	714*/43-44-48 730**57-59-63
22	700		22 700	696*/43-44-48 700**44-46-50	715*/44-45-49 729**53-56-59	721*/44-45-49 736**57-60-63
19	706		19 706	703*/43-45-49 705**44-46-50	722*/44-45-49 735**54-56-60	727*/44-45-49 742**57-60-63
16	712		16 712	709*/44-45-50 710**44-46-51	728*/45-46-50 740**54-56-60	733*/45-46-50 748**57-60-63
13	713		13 713	710*/44-46-50 713**45-47-51	729*/45-46-50 743**54-57-60	735*/45-46-50 750**58-61-64
10	713		10 713	711*/44-46-50 715**46-48-52	730*/45-46-50 744**55-58-61	736*/45-46-50 752**59-61-65
5	714		5 714	713*/44-46-50 718**47-49-53	732*/45-46-50 748**56-59-63	737*/45-46-50 753**59-62-65
0	715		0 715	715*/44-46-50 721**48-50-54	734*/45-46-50 751**57-60-64	739*/45-46-50 754**59-62-65
-5	715		-5 715	717*/44-46-50 725**49-51-55	735*/45-46-50 754**59-62-65	741*/45-46-50 755**59-62-66
-10	716		-10 716	719*/45-46-50 728**50-53-56	737*/45-46-50 755**59-62-66	743*/46-46-50 755**59-62-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FRT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 108 1680 0 82 1730 0

Engine out procedure: 3000m/9800ft as the separation altitude: if one engine failure occurs below the altitude, continue to climb along 24° magnetic track, after 3000m/9800ft, turn right and flight direct to DJT(P146-01D), follow the ATC's instructions to join route or landing back; if one engine failure occurs above this altitude, according to the SID procedures climb to the safe altitude, follow the ATC's instructions.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 03/F9 ZPPP

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61

58

55A	553	553*/29-29-32 561**38-41-43	568*/30-30-32 580**42-43-46	572*/30-30-32 581**42-43-46
52A	567	566*/30-31-34 574**40-42-45	581*/31-31-34 593**43-45-47	586*/31-31-34 596**44-45-48
49A	581	578*/31-32-35 587**41-43-46	595*/33-33-36 606**44-46-49	599*/33-33-36 610**45-47-50
46A	595	591*/33-34-37 599**41-44-47	608*/34-34-37 620**46-48-51	613*/34-34-37 625**47-49-51
43A	609	605*/34-35-38 612**42-45-48	622*/35-36-39 633**47-49-52	626*/36-36-39 640**48-50-53
40	624	618*/35-37-40 626**43-45-49	636*/37-37-41 647**49-51-54	641*/37-37-41 654**50-52-55
37	640	633*/37-38-42 640**44-47-50	651*/38-39-42 662**49-51-54	657*/39-39-42 670**51-53-57
34	656	648*/38-40-43 655**46-48-52	667*/40-41-44 677**50-53-56	672*/40-41-44 685**53-55-58
31	671	662*/39-41-45 669**46-49-52	681*/41-42-46 692**52-55-58	687*/41-42-46 699**54-56-60
28	684	674*/40-42-46 680**45-48-52	694*/42-43-47 704**52-55-59	700*/43-43-47 712**55-57-61
25	694	683*/41-43-47 688**45-47-51	703*/43-44-48 714**53-56-60	709*/43-44-48 722**55-58-61
22	700	689*/42-43-48 694**45-47-51	710*/44-45-49 721**54-57-60	716*/44-45-49 729**56-59-62
19	706	695*/42-44-48 700**45-47-51	716*/44-45-49 728**54-57-61	722*/44-45-49 736**57-59-63
16	712	701*/43-45-49 705**45-47-52	722*/45-46-50 734**54-57-61	728*/45-46-50 742**58-61-64
13	713	703*/43-45-49 707**46-48-52	724*/45-46-50 736**55-58-62	729*/45-46-50 744**58-60-64
10	713	704*/43-45-49 709**46-49-53	725*/45-46-50 738**56-59-62	731*/45-46-50 746**58-61-65
5	714	706*/43-45-49 712**47-50-54	727*/45-46-50 740**56-59-63	732*/45-46-50 749**58-61-65
0	715	708*/44-45-50 716**48-51-55	728*/45-46-50 743**57-60-63	734*/45-46-50 752**59-62-65
-5	715	710*/44-46-50 719**49-52-56	730*/45-46-50 746**57-60-64	736*/45-46-50 755**59-62-66
-10	716	712*/44-46-50 722**51-54-58	732*/45-46-50 749**58-61-65	738*/46-46-50 755**59-62-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/F9 108 1680 0 82 1730 0

Engine out procedure: 3000m/9800ft as the separation altitude: if one engine failure occurs below the altitude, continue to climb along 24° magnetic track, after 3000m/9800ft, turn right and flight direct to DJT(P146-01D), follow the ATC's instructions to join route or landing back; if one engine failure occurs above this altitude, according to the SID procedures climb to the safe altitude, follow the ATC's instructions.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 04

ZPPP

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800		CFM56-7B26	DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10 0 10			
61	58				
55A	553	656F/29-30-32 581**41-43-46	686F/30-30-32 581**42-43-46	697F/30-30-32 581**42-43-46	
52A	567	670F/30-31-34 596**43-45-48	700F/31-31-34 596**44-45-48	711F/31-31-34 596**44-45-48	
49A	581	683F/32-33-36 610**45-47-50	714F/33-33-36 610**45-47-50	725F/33-33-36 610**45-47-50	
46A	595	696F/33-34-37 625**46-49-51	728F/34-34-37 625**47-49-51	739F/34-34-37 625**47-49-51	
43A	609	709F/35-36-39 640**48-50-53	743F/35-36-39 640**48-50-53	754F/36-36-39 640**48-50-53	
40	624	721F/36-37-41 651**47-49-52	758F/37-37-41 656**50-52-55	769F/37-37-41 656**50-52-55	
37	640	733F/38-39-42 663**46-48-51	774F/38-39-42 673**52-54-57	786F/39-39-42 673**52-54-57	
34	656	724B/39-41-44 673**45-47-50	787F/40-41-44 690**53-56-59	801F/40-41-44 690**53-56-59	
31	671	717B/40-42-46 682**44-46-50	799F/41-42-46 705**54-57-60	814F/41-42-46 706**55-57-60	
28	684	712B/42-43-47 691**44-46-49	810F/42-43-47 716**53-56-59	825F/43-43-47 721**56-59-62	
25	694	710B/42-44-48 698**44-46-49	819F/43-44-48 724**53-56-59	834F/43-44-48 731**57-59-63	
22	700	711B/43-45-49 703**44-46-50	826F/44-45-49 729**53-56-59	841F/44-45-49 736**57-60-63	
19	706	713B/43-45-49 708**44-46-50	829B/44-45-49 735**54-56-60	849F/44-45-49 742**57-60-63	
16	712	715B/44-46-50 704**44-46-50	832B/45-46-50 740**54-56-60	856F/45-46-50 748**57-60-63	
13	713	721B/44-46-50 715**45-47-51	840B/45-46-50 743**54-57-60	860F/45-46-50 750**58-61-64	
10	713	728B/44-46-50 717**45-47-51	848F/45-46-50 744**55-58-61	862F/45-46-50 752**59-61-65	
5	714	740B/44-46-50 721**46-48-52	855F/45-46-50 748**56-59-63	862F/45-46-50 753**59-62-65	
0	715	752B/44-46-50 725**47-49-53	862F/45-46-50 751**57-60-64	862F/45-46-50 754**59-62-65	
-5	715	764B/44-46-50 728**48-51-54	862F/45-46-50 754**59-62-65	862F/45-46-50 755**59-62-66	
-10	716	777B/45-46-50 732**50-52-56	862F/45-46-50 755**59-62-66	862F/46-46-50 755**59-62-66	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FRT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 04 NONE

Engine out procedure:2700m/8900ft as the seperation altitude;if one engine failure occurs below the altitude,continue climb along the 54° magnetic track, after 2700m/8900ft, flight direct to DJT then follow the ATC instructions to join route or landing back ;if one engine failure occurs above this seperation altitude ,according to the SID procedure climb to the safe altitude, follow the ATC's instructions

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 04/C9 ZPPP

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61

58

55A	553	642F/29-30-32	672F/30-30-32	683F/30-30-32
		581**41-43-46	581**42-43-46	581**42-43-46
52A	567	654F/30-31-34	686F/31-31-34	697F/31-31-34
		596**43-45-48	596**44-45-48	596**44-45-48
49A	581	667F/32-33-36	700F/33-33-36	710F/33-33-36
		610**45-47-50	610**45-47-50	610**45-47-50
46A	595	680F/33-34-37	713F/34-34-37	724F/34-34-37
		625**46-49-51	625**47-49-51	625**47-49-51
43A	609	693F/35-36-39	728F/35-36-39	739F/36-36-39
		640**48-50-53	640**48-50-53	640**48-50-53
40	624	706F/36-37-41	742F/37-37-41	754F/37-37-41
		651**47-49-52	656**50-52-55	656**50-52-55
37	640	719F/38-39-42	758F/38-39-42	770F/39-39-42
		663**46-48-51	673**52-54-57	673**52-54-57
34	656	724B/39-41-44	772F/40-41-44	785F/40-41-44
		673**45-47-50	690**53-56-59	690**53-56-59
31	671	717B/40-42-46	784F/41-42-46	798F/41-42-46
		682**44-46-50	705**54-57-60	706**55-57-60
28	684	712B/42-43-47	795F/42-43-47	809F/43-43-47
		691**44-46-49	716**53-56-59	721**56-59-62
25	694	710B/42-44-48	804F/43-44-48	819F/43-44-48
		698**44-46-49	724**53-56-59	731**57-59-63
22	700	711B/43-45-49	811F/44-45-49	826F/44-45-49
		703**44-46-50	729**53-56-59	736**57-60-63
19	706	713B/43-45-49	818F/44-45-49	833F/44-45-49
		708**44-46-50	735**54-56-60	742**57-60-63
16	712	715B/44-46-50	825F/45-46-50	840F/45-46-50
		740**54-56-60	748**57-60-63	748**57-60-63
13	713	721B/44-46-50	829F/45-46-50	844F/45-46-50
		715**45-47-51	743**54-57-60	750**58-61-64
10	713	728B/44-46-50	832F/45-46-50	848F/45-46-50
		717**45-47-51	744**55-58-61	752**59-61-65
5	714	740B/44-46-50	839F/45-46-50	855F/45-46-50
		721**46-48-52	748**56-59-63	753**59-62-65
0	715	752B/44-46-50	845F/45-46-50	861F/45-46-50
		725**47-49-53	751**57-60-64	754**59-62-65
-5	715	764B/44-46-50	852F/45-46-50	862F/45-46-50
		728**48-51-54	754**59-62-65	755**59-62-66
-10	716	777B/45-46-50	859F/45-46-50	862F/46-46-50
		732**50-52-56	755**59-62-66	755**59-62-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4280 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

04/C9 NONE

Engine out procedure:2700m/8900ft as the seperation altitude;if one engine failure occurs below the altitude,continue climb along the 54° magnetic track, after 2700m/8900ft, flight direct to DJT then follow the ATC instructions to join route or landing back ;if one engine failure occurs above this seperation altitude ,according to the SID procedure climb to the safe altitude, follow the ATC's instructions

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 21

ZPPP

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 61 58	100KG	-10	0	10
55A	553	621F/29-30-32 581**42-43-46	651F/30-30-32 581**42-43-46	661F/30-30-32 581**42-43-46
52A	567	633F/31-31-34 596**43-45-48	664F/31-31-34 596**44-45-48	675F/31-31-34 596**44-45-48
49A	581	645F/32-33-36 610**45-47-50	678F/33-33-36 610**45-47-50	688F/33-33-36 610**45-47-50
46A	595	657F/33-34-37 625**46-49-51	691F/34-34-37 625**47-49-51	702F/34-34-37 625**47-49-51
43A	609	669F/35-36-39 638**47-49-52	705F/35-36-39 640**48-50-53	715F/36-36-39 640**49-50-53
40	624	683F/36-37-41 651**47-49-52	719F/37-37-41 656**50-52-55	730F/37-37-41 656**50-52-55
37	640	696F/38-39-42 663**48-49-51	734F/38-39-42 673**52-54-57	746F/39-39-42 673**52-54-57
34	656	710F/39-41-44 673**45-47-51	748F/40-41-44 690**53-56-59	761F/40-41-44 690**54-56-59
31	671	718B/41-42-46 683**45-46-50	762F/41-42-46 705**54-57-60	775F/41-42-46 706**55-57-60
28	684	712B/42-43-47 692**44-46-49	773F/42-43-47 716**54-56-59	787F/43-43-47 721**56-59-62
25	694	710B/43-44-48 698**44-46-49	782F/43-44-48 724**53-56-59	796F/44-44-48 731**57-59-63
22	700	711B/43-45-49 703**44-46-50	789F/44-45-49 729**54-56-59	803F/44-45-49 736**57-60-63
19	706	713B/44-45-49 708**44-46-50	796F/44-45-49 735**54-56-60	810F/45-45-49 742**57-60-63
16	712	715B/44-46-50 703**44-46-50	802F/45-46-50 741**54-56-60	817F/45-46-50 748**57-60-64
13	713	722B/44-46-50 715**45-47-51	806F/45-46-50 743**55-57-61	821F/45-46-50 750**58-61-64
10	713	729B/44-46-50 717**45-47-51	810F/45-46-50 745**55-58-61	825F/45-46-50 752**59-62-65
5	714	740B/44-46-50 721**46-48-52	816F/45-46-50 748**56-59-63	831F/45-46-50 753**59-62-65
0	715	752B/44-46-50 725**48-50-53	822F/45-46-50 751**58-60-64	837F/45-46-50 754**59-62-65
-5	715	765B/45-46-50 728**49-51-55	829F/45-46-50 754**59-62-65	844F/46-46-50 755**59-62-66
-10	716	778B/45-46-50 732**50-52-56	835F/45-46-50 755**59-62-66	851F/46-46-50 755**59-62-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 21/F2 ZPPP

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10
61			
58			
55A 553	605F/29-30-32	637F/30-30-32	646F/30-30-32
	579**40-42-45	581**42-43-46	581**42-43-46
52A 567	617F/31-31-34	649F/31-31-34	659F/31-31-34
	592**41-43-45	596**44-45-48	596**44-45-48
49A 581	628F/32-33-36	662F/33-33-36	672F/33-33-36
	605**42-44-46	610**45-47-50	610**45-47-50
46A 595	640F/33-34-37	675F/34-34-37	686F/34-34-37
	618**43-44-47	625**47-49-51	625**47-49-51
43A 609	652F/35-36-39	687F/35-36-39	699F/36-36-39
	631**43-45-48	640**48-50-53	640**49-50-53
40 624	665F/36-37-41	701F/37-37-41	713F/37-37-41
	645**44-46-49	656**50-52-55	656**50-52-55
37 640	678F/38-39-42	715F/38-39-42	728F/39-39-42
	660**45-47-50	673**52-54-57	673**52-54-57
34 656	691F/39-41-44	729F/40-41-44	742F/40-41-44
	673**45-47-51	690**53-56-59	690**54-56-59
31 671	704F/41-42-46	742F/41-42-46	756F/41-42-46
	683**45-46-50	705**54-57-60	706**55-57-60
28 684	712B/42-43-47	754F/42-43-47	768F/43-43-47
	692**44-46-49	716**54-56-59	721**56-59-62
25 694	710B/43-44-48	764F/43-44-48	777F/44-44-48
	698**44-46-49	724**53-56-59	731**57-59-63
22 700	711B/43-45-49	771F/44-45-49	785F/44-45-49
	703**44-46-50	729**54-56-59	736**57-60-63
19 706	713B/44-45-49	779F/44-45-49	793F/45-45-49
	708**44-46-50	735**54-56-60	742**57-60-63
16 712	715B/44-46-50	786F/45-46-50	800F/45-46-50
		741**54-56-60	748**57-60-64
13 713	722B/44-46-50	789F/45-46-50	803F/45-46-50
	715**45-47-51	743**55-57-61	750**58-61-64
10 713	729B/44-46-50	792F/45-46-50	807F/45-46-50
	717**45-47-51	745**55-58-61	752**59-62-65
5 714	740B/44-46-50	798F/45-46-50	813F/45-46-50
	721**46-48-52	748**56-59-63	753**59-62-65
0 715	752B/44-46-50	804F/45-46-50	819F/45-46-50
	725**48-50-53	751**58-60-64	754**59-62-65
-5 715	765B/45-46-50	811F/45-46-50	826F/46-46-50
	728**49-51-55	754**59-62-65	755**59-62-66
-10 716	773F/45-46-50	817F/45-46-50	832F/46-46-50
	732**50-52-56	755**59-62-66	755**59-62-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21/F2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22

ZPPP

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26			DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10	
61	58				
55A	553	653F/29-30-32	683F/30-30-32	694F/30-30-32	
		581**42-43-46	581**42-43-46	581**42-43-46	
52A	567	667F/31-31-34	697F/31-31-34	708F/31-31-34	
		596**43-45-48	596**44-45-48	596**44-45-48	
49A	581	680F/32-33-36	711F/33-33-36	722F/33-33-36	
		610**45-47-50	610**45-47-50	610**45-47-50	
46A	595	694F/33-34-37	725F/34-34-37	736F/34-34-37	
		625**46-49-51	625**47-49-51	625**47-49-51	
43A	609	707F/35-36-39	740F/35-36-39	751F/36-36-39	
		640**48-50-53	640**48-50-53	640**49-50-53	
40	624	719F/36-37-41	755F/37-37-41	766F/37-37-41	
		651**47-49-52	656**50-52-55	656**50-52-55	
37	640	732F/38-39-42	771F/38-39-42	782F/39-39-42	
		663**46-48-51	673**52-54-57	673**52-54-57	
34	656	725B/39-41-44	785F/40-41-44	798F/40-41-44	
		673**45-47-51	690**53-56-59	690**54-56-59	
31	671	718B/41-42-46	797F/41-42-46	812F/41-42-46	
		683**45-46-50	705**54-57-60	706**55-57-60	
28	684	712B/42-43-47	808F/42-43-47	823F/43-43-47	
		692**44-46-49	716**54-56-59	721**56-59-62	
25	694	710B/43-44-48	817F/43-44-48	832F/44-44-48	
		698**44-46-49	724**53-56-59	731**57-59-63	
22	700	711B/43-45-49	824F/44-45-49	839F/44-45-49	
		703**44-46-50	729**54-56-59	736**57-60-63	
19	706	713B/44-45-49	830B/44-45-49	847F/45-45-49	
		708**44-46-50	735**54-56-60	742**57-60-63	
16	712	715B/44-46-50	832B/45-46-50	854F/45-46-50	
			741**54-56-60	748**57-60-64	
13	713	722B/44-46-50	841B/45-46-50	858F/45-46-50	
		715**45-47-51	743**55-57-61	750**58-61-64	
10	713	729B/44-46-50	846F/45-46-50	862F/45-46-50	
		717**45-47-51	745**55-58-61	752**59-62-65	
5	714	740B/44-46-50	853F/45-46-50	862F/45-46-50	
		721**46-48-52	748**56-59-63	753**59-62-65	
0	715	752B/44-46-50	860F/45-46-50	862F/45-46-50	
		725**48-50-53	751**58-60-64	754**59-62-65	
-5	715	765B/45-46-50	862F/45-46-50	862F/46-46-50	
		728**49-51-55	754**59-62-65	755**59-62-66	
-10	716	778B/45-46-50	862F/45-46-50	862F/46-46-50	
		732**50-52-56	755**59-62-66	755**59-62-66	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

22 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22/C2 ZPPP

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61			
58			
55A 553	605F/29-30-32	637F/30-30-32	646F/30-30-32
	579**40-42-45	581**42-43-46	581**42-43-46
52A 567	617F/31-31-34	649F/31-31-34	659F/31-31-34
	592**41-43-45	596**44-45-48	596**44-45-48
49A 581	628F/32-33-36	662F/33-33-36	672F/33-33-36
	605**42-44-46	610**45-47-50	610**45-47-50
46A 595	640F/33-34-37	675F/34-34-37	686F/34-34-37
	618**43-44-47	625**47-49-51	625**47-49-51
43A 609	652F/35-36-39	687F/35-36-39	699F/36-36-39
	631**43-45-48	640**48-50-53	640**49-50-53
40 624	665F/36-37-41	701F/37-37-41	713F/37-37-41
	645**44-46-49	656**50-52-55	656**50-52-55
37 640	678F/38-39-42	715F/38-39-42	728F/39-39-42
	660**45-47-50	673**52-54-57	673**52-54-57
34 656	691F/39-41-44	729F/40-41-44	742F/40-41-44
	673**45-47-51	690**53-56-59	690**54-56-59
31 671	704F/41-42-46	742F/41-42-46	756F/41-42-46
	683**45-46-50	705**54-57-60	706**55-57-60
28 684	712B/42-43-47	754F/42-43-47	768F/43-43-47
	692**44-46-49	716**54-56-59	721**56-59-62
25 694	710B/43-44-48	764F/43-44-48	777F/44-44-48
	698**44-46-49	724**53-56-59	731**57-59-63
22 700	711B/43-45-49	771F/44-45-49	785F/44-45-49
	703**44-46-50	729**54-56-59	736**57-60-63
19 706	713B/44-45-49	779F/44-45-49	793F/45-45-49
	708**44-46-50	735**54-56-60	742**57-60-63
16 712	715B/44-46-50	786F/45-46-50	800F/45-46-50
		741**54-56-60	748**57-60-64
13 713	722B/44-46-50	789F/45-46-50	803F/45-46-50
	715**45-47-51	743**55-57-61	750**58-61-64
10 713	729B/44-46-50	792F/45-46-50	807F/45-46-50
	717**45-47-51	745**55-58-61	752**59-62-65
5 714	740B/44-46-50	798F/45-46-50	813F/45-46-50
	721**46-48-52	748**56-59-63	753**59-62-65
0 715	752B/44-46-50	804F/45-46-50	819F/45-46-50
	725**48-50-53	751**58-60-64	754**59-62-65
-5 715	765B/45-46-50	811F/45-46-50	826F/46-46-50
	728**49-51-55	754**59-62-65	755**59-62-66
-10 716	773F/45-46-50	817F/45-46-50	832F/46-46-50
	732**50-52-56	755**59-62-66	755**59-62-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22/C2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22/J ZPPP

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800		CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
C	100KG	-10	0	10		
61	58	55A	553	621F/29-30-32 581**42-43-46	651F/30-30-32 581**42-43-46	661F/30-30-32 581**42-43-46
52A	567	52A	567	633F/31-31-34 596**43-45-48	664F/31-31-34 596**44-45-48	675F/31-31-34 596**44-45-48
49A	581	49A	581	645F/32-33-36 610**45-47-50	678F/33-33-36 610**45-47-50	688F/33-33-36 610**45-47-50
46A	595	46A	595	657F/33-34-37 625**46-49-51	691F/34-34-37 625**47-49-51	702F/34-34-37 625**47-49-51
43A	609	43A	609	669F/35-36-39 638**47-49-52	705F/35-36-39 640**48-50-53	715F/36-36-39 640**49-50-53
40	624	40	624	683F/36-37-41 651**47-49-52	719F/37-37-41 656**50-52-55	730F/37-37-41 656**50-52-55
37	640	37	640	696F/38-39-42 663**46-48-51	734F/38-39-42 673**52-54-57	746F/39-39-42 673**52-54-57
34	656	34	656	710F/39-41-44 673**45-47-51	748F/40-41-44 690**53-56-59	761F/40-41-44 690**54-56-59
31	671	31	671	718B/41-42-46 683**45-46-50	762F/41-42-46 705**54-57-60	775F/41-42-46 706**55-57-60
28	684	28	684	712B/42-43-47 692**44-46-49	773F/42-43-47 716**54-56-59	787F/43-43-47 721**56-59-62
25	694	25	694	710B/43-44-48 698**44-46-49	782F/43-44-48 724**53-56-59	796F/44-44-48 731**57-59-63
22	700	22	700	711B/43-45-49 703**44-46-50	789F/44-45-49 729**54-56-59	803F/44-45-49 736**57-60-63
19	706	19	706	713B/44-45-49 708**44-46-50	796F/44-45-49 735**54-56-60	810F/45-45-49 742**57-60-63
16	712	16	712	715B/44-46-50 703**44-46-50	802F/45-46-50 741**54-56-60	817F/45-46-50 748**57-60-64
13	713	13	713	722B/44-46-50 715**45-47-51	806F/45-46-50 743**55-57-61	821F/45-46-50 750**58-61-64
10	713	10	713	729B/44-46-50 717**45-47-51	810F/45-46-50 745**55-58-61	825F/45-46-50 752**59-62-65
5	714	5	714	740B/44-46-50 721**46-48-52	816F/45-46-50 748**56-59-63	831F/45-46-50 753**59-62-65
0	715	0	715	752B/44-46-50 725**48-50-53	822F/45-46-50 751**58-60-64	837F/45-46-50 754**59-62-65
-5	715	-5	715	765B/45-46-50 728**49-51-55	829F/45-46-50 754**59-62-65	844F/46-46-50 755**59-62-66
-10	716	-10	716	778B/45-46-50 732**50-52-56	835F/45-46-50 755**59-62-66	851F/46-46-50 755**59-62-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22/J NONE

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 03

ZPPP

*** FLAPS 01 ***			AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800		CFM56-7B26	DATED 07-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 61 58	100KG	-10 0 10			
55A	574	567*/37-37-39	585*/38-38-40	589*/38-38-40	
		571**43-44-46	591**47-48-50	597**49-50-52	
52A	588	580*/38-39-41	598*/40-40-42	603*/40-40-42	
		584**44-45-48	604**48-49-51	610**50-50-52	
49A	603	593*/39-40-42	611*/41-41-43	617*/41-41-43	
		597**45-46-49	617**49-50-52	624**51-51-53	
46A	617	606*/41-41-44	625*/43-43-45	630*/43-43-45	
		609**46-48-51	630**50-51-53	637**52-52-54	
43A	632	619*/42-43-46	639*/45-45-47	645*/45-45-47	
		622**48-50-52	644**51-53-55	651**52-53-55	
40	647	633*/43-44-47	653*/46-46-49	660*/46-46-49	
		636**49-51-53	658**53-55-57	666**55-56-58	
37	664	648*/45-46-49	669*/48-48-51	676*/48-48-51	
		650**48-49-52	674**54-56-58	681**54-55-57	
34	681	663*/46-47-51	684*/49-50-52	692*/49-50-52	
			689**56-57-60	697**59-60-63	
31	696	668B/46-48-51	699*/50-51-54	706*/51-51-54	
			702**55-56-59	711**58-59-62	
28	711	672B/46-48-52	712*/52-53-55	719*/52-53-55	
			714**54-55-58	723**57-58-61	
25	721	676B/47-48-52	722*/52-54-56	729*/53-54-56	
			723**54-55-58	733**57-58-61	
22	727	680B/47-49-53	728*/53-54-57	736*/53-54-57	
			729**54-55-58	738**57-58-61	
19	734	684B/47-49-53	735*/54-55-58	743*/54-55-58	
				744**57-58-61	
16	740	688B/47-49-54	740B/54-55-58	749*/54-55-58	
				749**57-59-62	
13	741	691B/48-50-54	743*/54-55-58	750*/54-55-58	
			742**55-56-59	751**58-59-62	
10	741	695B/48-50-54	745*/54-55-59	752*/54-55-59	
			744**55-57-60	753**59-60-63	
5	742	701B/49-51-55	747*/54-56-59	754*/55-56-59	
			748**56-58-61	757**60-61-64	
0	743	707B/50-52-55	750*/54-56-59	756*/55-56-59	
			752**58-59-62	761**61-63-66	
-5	743	713B/50-52-56	752*/55-56-59	758*/55-56-59	
			756**59-60-63	765**62-64-67	
-10	744	720B/51-53-57	754*/55-56-59	760*/55-56-59	
			760**60-62-65	769**64-65-68	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FRT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 108 1680 0 82 1730 0

Engine out procedure: 3000m/9800ft as the separation altitude: if one engine failure occurs below the altitude, continue to climb along 24° magnetic track, after 3000m/9800ft, turn right and flight direct to DJT(P146-01D), follow the ATC's instructions to join route or landing back; if one engine failure occurs above this altitude, according to the SID procedures climb to the safe altitude, follow the ATC's instructions.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 03/F9 ZPPP

*** FLAPS 01 ***			AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26			DATED 07-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG		-10	0	10
61					
58					
55A	574	561*/36-36-39	579*/38-38-40	585*/38-38-40	
		564**41-43-45	584**45-46-48	591**47-48-50	
52A	588	574*/37-38-40	592*/40-40-42	598*/40-40-42	
		576**43-45-47	597**46-47-49	604**48-49-51	
49A	603	586*/38-39-42	605*/41-41-43	612*/41-41-43	
		589**44-46-48	610**47-48-50	617**49-50-52	
46A	617	599*/40-41-43	619*/43-43-45	625*/43-43-45	
		602**45-47-50	623**49-50-53	630**50-51-53	
43A	632	612*/41-42-45	632*/45-45-47	639*/45-45-47	
		614**47-48-51	637**51-52-54	644**51-52-55	
40	647	626*/42-43-46	646*/46-46-49	653*/46-46-49	
		628**47-49-52	650**51-52-55	658**53-55-57	
37	664	641*/44-45-48	662*/47-48-50	669*/48-48-51	
		642**48-50-53	666**53-55-57	673**54-55-58	
34	681	655*/45-47-50	677*/49-49-52	684*/49-50-52	
		656**47-49-52	680**54-55-58	689**56-58-60	
31	696	668B/46-48-51	691*/50-51-53	699*/51-51-54	
		695**55-57-60	703**56-57-60		
28	711	672B/46-48-52	704*/51-52-55	712*/52-53-55	
		707**55-56-59	716**58-60-63		
25	721	676B/47-48-52	714*/52-53-56	722*/53-54-56	
		716**54-56-59	725**57-59-62		
22	727	680B/47-49-53	720*/52-53-56	728*/53-54-57	
		722**54-56-59	732**58-59-62		
19	734	684B/47-49-53	727*/53-54-57	735*/54-55-58	
		729**54-56-59	738**58-59-62		
16	740	688B/47-49-54	734*/53-55-58	742*/54-55-58	
		735**55-56-59	745**58-59-62		
13	741	691B/48-50-54	735*/54-55-58	743*/54-55-58	
		737**55-57-60	747**58-60-63		
10	741	695B/48-50-54	737*/54-55-58	745*/54-55-59	
		739**56-58-61	749**59-61-64		
5	742	701B/49-51-55	739*/54-55-58	747*/55-56-59	
		742**57-59-62	752**60-62-65		
0	743	707B/50-52-55	742*/54-56-59	750*/55-56-59	
-5	743	713B/50-52-56	746**58-60-63	756**62-64-67	
-10	744	720B/51-53-57	744*/55-56-59	752*/55-56-59	
		749**59-61-65	759**63-65-68		
		747*/55-56-59	755*/55-56-59		
		753**61-63-66	763**64-66-69		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/F9 108 1680 0 82 1730 0

Engine out procedure: 3000m/9800ft as the separation altitude: if one engine failure occurs below the altitude, continue to climb along 24° magnetic track, after 3000m/9800ft, turn right and flight direct to DJT(P146-01D), follow the ATC's instructions to join route or landing back; if one engine failure occurs above this altitude, according to the SID procedures climb to the safe altitude, follow the ATC's instructions.

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 04 ZPPP

*** FLAPS 01 *** AIR COND OFF ANTI-ICE OFF

CHANGSHUIJICHANG

KM/SOUTHWEST

DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C 100KG -10 0 10

61

58

55A	574	636F/38-38-40 595**47-48-50	665F/38-38-40 605**53-55-56	675F/38-38-40 605**54-55-56
52A	588	647T/39-40-42 608**48-49-51	679F/40-40-42 620**55-56-58	689F/40-40-42 620**55-56-58
49A	603	653T/41-41-43 620**48-49-51	692F/41-41-43 634**56-58-60	703F/41-41-43 635**57-58-60
46A	617	660T/42-43-45 631**48-49-52	706F/43-43-45 647**57-58-60	716F/43-43-45 650**59-60-62
43A	632	667T/44-45-47 642**48-49-51	720F/45-45-47 660**57-58-61	731F/45-45-47 666**60-62-64
40	647	663B/45-46-49 651**47-48-50	735F/46-46-49 672**56-58-60	745F/46-46-49 678**60-61-64
37	664	659B/46-47-50	746T/48-48-51 685**55-57-59	761F/48-48-51 691**59-60-63
34	681	664B/46-48-51	746B/49-50-52 696**55-56-59	774F/49-50-52 704**58-59-62
31	696	668B/46-48-51	739B/50-51-54 707**54-55-58	777B/51-51-54 715**57-59-61
28	711	672B/46-48-52	734B/52-53-55 717**54-55-58	772B/52-53-55 725**57-58-61
25	721	676B/47-48-52	733B/52-54-56 724**53-55-58	770B/53-54-56 733**57-58-61
22	727	680B/47-49-53	735B/53-54-57 729**54-55-58	772B/53-54-57 738**57-58-61
19	734	684B/47-49-53	737B/54-55-58	774B/54-55-58 744**57-58-61
16	740	688B/47-49-54	740B/54-55-58	777B/54-55-58 749**57-59-62
13	741	691B/48-50-54	746B/54-55-58 742**55-56-59	785B/54-55-58 751**58-59-62
10	741	695B/48-50-54	754B/54-55-59 744**55-57-60	793B/54-55-59 753**59-60-63
5	742	701B/49-51-55	767B/54-56-59 748**56-58-61	807B/55-56-59 757**60-61-64
0	743	707B/50-52-55	780B/54-56-59 752**58-59-62	822B/55-56-59 761**61-63-66
-5	743	713B/50-52-56	794B/55-56-59 756**59-60-63	837B/55-56-59 765**62-64-67
-10	744	720B/51-53-57	809B/55-56-59 760**60-62-65	852B/55-56-59 769**64-65-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
04 NONE

Engine out procedure: 2700m/8900ft as the separation altitude: if one engine failure occurs below the altitude, continue climb along the 54° magnetic track, after 2700m/8900ft, flight direct to DJT then follow the ATC instructions to join route or landing back; if one engine failure occurs above this separation altitude, according to the SID procedure climb to the safe altitude, follow the ATC's instructions

B737-800-84P TAKEOFF ANALYSIS MANUAL

EL ELEVATION 6903 FT RUNWAY 04/C9 ZPPP
 *** FLAPS 01 *** AIR COND OFF ANTI-ICE OFF CHANGSHUIJICHANG
 KM/SOUTHWEST DATED 07-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
 C 100KG -10 0 10

61

58

55A	574	621F/38-38-40	652F/38-38-40	661F/38-38-40
		595**47-48-50	605**53-55-56	605**54-55-56
52A	588	633F/39-40-42	665F/40-40-42	675F/40-40-42
		608**48-49-51	620**55-56-58	620**55-56-58
49A	603	645F/41-41-43	678F/41-41-43	688F/41-41-43
		620**48-49-51	634**56-58-60	635**57-58-60
46A	617	657F/42-43-45	691F/43-43-45	702F/43-43-45
		631**48-49-52	647**57-58-60	650**59-60-62
43A	632	667T/44-45-47	705F/45-45-47	716F/45-45-47
		642**48-49-51	660**57-58-61	666**60-62-64
40	647	663B/45-46-49	718F/46-46-49	730F/46-46-49
		651**47-48-50	672**56-58-60	678**60-61-64
37	664	659B/46-47-50	733F/48-48-51	745F/48-48-51
			685**55-57-59	691**59-60-63
34	681	664B/46-48-51	746F/49-50-52	759F/49-50-52
			696**55-56-59	704**58-59-62
31	696	668B/46-48-51	739B/50-51-54	771F/51-51-54
			707**54-55-58	715**57-59-61
28	711	672B/46-48-52	734B/52-53-55	772B/52-53-55
			717**54-55-58	725**57-58-61
25	721	676B/47-48-52	733B/52-54-56	770B/53-54-56
			724**53-55-58	733**57-58-61
22	727	680B/47-49-53	735B/53-54-57	772B/53-54-57
			729**54-55-58	738**57-58-61
19	734	684B/47-49-53	737B/54-55-58	774B/54-55-58
				744**57-58-61
16	740	688B/47-49-54	740B/54-55-58	777B/54-55-58
				749**57-59-62
13	741	691B/48-50-54	746B/54-55-58	785B/54-55-58
			742**55-56-59	751**58-59-62
10	741	695B/48-50-54	754B/54-55-59	793B/54-55-59
			744**55-57-60	753**59-60-63
5	742	701B/49-51-55	767B/54-56-59	807B/55-56-59
			748**56-58-61	757**60-61-64
0	743	707B/50-52-55	780B/54-56-59	822B/55-56-59
			752**58-59-62	761**61-63-66
-5	743	713B/50-52-56	794B/55-56-59	837B/55-56-59
			756**59-60-63	765**62-64-67
-10	744	720B/51-53-57	809B/55-56-59	846F/55-56-59
			760**60-62-65	769**64-65-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4280 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 04/C9 NONE

Engine out procedure: 2700m/8900ft as the separation altitude: if one engine failure occurs below the altitude, continue climb along the 54° magnetic track, after 2700m/8900ft, flight direct to DJT then follow the ATC instructions to join route or landing back; if one engine failure occurs above this separation altitude, according to the SID procedure climb to the safe altitude, follow the ATC's instructions

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 21

ZPPP

		*** FLAPS 01 ***		AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800		CFM56-7B26		DATED 07-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
C	100KG	-10	0	10		
61	58	55A 574	601F/38-38-40 588**44-45-47	632F/38-38-40 601**51-52-54	641F/38-38-40 605**54-55-56	
52A	588	52A 588	613F/39-40-42 601**45-46-48	644F/40-40-42 615**52-53-55	654F/40-40-42 619**55-56-58	
49A	603	49A 603	624F/41-41-43 614**46-46-49	656F/41-41-43 628**53-54-56	667F/41-41-43 632**56-57-59	
46A	617	46A 617	636F/42-43-45 627**46-47-50	669F/43-43-45 642**54-55-57	680F/43-43-45 646**57-58-60	
43A	632	43A 632	648F/44-45-47 640**47-48-51	681F/45-45-47 656**55-56-58	693F/45-45-47 660**57-59-61	
40	647	40 647	660F/46-46-49 652**47-48-50	695F/46-46-49 671**56-57-59	707F/46-46-49 675**58-59-62	
37	664	37 664	660B/47-47-50	709F/48-48-51 685**56-57-59	721F/48-48-51 691**59-60-63	
34	681	34 681	664B/47-48-51	723F/49-50-52 696**55-56-59	735F/49-50-52 704**58-59-62	
31	696	31 696	668B/47-48-51	736F/51-51-54 707**54-55-58	749F/51-51-54 715**57-59-61	
28	711	28 711	672B/47-48-52	735B/52-53-55 717**54-55-58	761F/52-53-55 725**57-58-61	
25	721	25 721	677B/47-48-52	733B/53-54-56 724**54-55-58	769F/53-54-56 733**57-58-61	
22	727	22 727	680B/47-49-53	735B/53-54-57 729**54-55-58	773B/53-54-57 738**57-58-61	
19	734	19 734	684B/47-49-53	737B/54-55-58	775B/54-55-58 744**57-59-61	
16	740	16 740	688B/47-49-54	740B/54-55-58	778B/54-55-58 749**57-59-62	
13	741	13 741	691B/48-50-54	747B/54-55-58 742**55-56-59	786B/55-55-58 751**58-59-62	
10	741	10 741	695B/48-50-54	755B/54-55-59 745**55-57-60	794B/55-55-59 754**59-60-63	
5	742	5 742	701B/49-51-55	768B/55-56-59 748**57-58-61	803F/55-56-59 757**60-62-64	
0	743	0 743	707B/50-52-55	781B/55-56-59 752**58-59-62	809F/55-56-59 761**61-63-66	
-5	743	-5 743	713B/51-52-56	795B/55-56-59 756**59-60-63	816F/55-56-59 765**62-64-67	
-10	744	21 744	720B/51-53-57	807F/55-56-59 760**60-62-65	822F/55-56-59 769**64-65-68	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 21/F2 ZPPP

*** FLAPS 01 ***			AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26					DATED 07-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG		-10	0	10
61					
58					
55A	574	586F/38-38-40	617F/38-38-40	627F/38-38-40	
		581**41-41-43	595**48-48-50	599**50-51-53	
52A	588	597F/39-40-42	628F/40-40-42	639F/40-40-42	
		593**41-42-44	609**49-49-51	613**51-52-54	
49A	603	608F/41-41-43	640F/41-41-43	651F/41-41-43	
		606**42-43-45	622**50-50-52	626**52-53-55	
46A	617	620F/42-43-45	652F/43-43-45	663F/43-43-45	
		618**43-43-46	635**50-51-53	640**53-54-56	
43A	632	631F/44-44-47	664F/45-45-47	676F/45-45-47	
			648**51-52-54	654**54-54-57	
40	647	643F/45-46-48	677F/46-46-49	689F/46-46-49	
			663**52-53-55	668**55-55-58	
37	664	655F/46-47-50	691F/48-48-51	703F/48-48-51	
			678**53-54-56	684**55-56-59	
34	681	664B/47-48-51	704F/49-50-52	717F/49-50-52	
			693**54-55-57	699**56-57-60	
31	696	668B/47-48-51	717F/51-51-54	730F/51-51-54	
			707**54-55-58	713**57-58-61	
28	711	672B/47-48-52	729F/52-53-55	741F/52-53-55	
			717**54-55-58	725**57-58-61	
25	721	677B/47-48-52	733B/53-54-56	751F/53-54-56	
			724**54-55-58	733**57-58-61	
22	727	680B/47-49-53	735B/53-54-57	758F/53-54-57	
			729**54-55-58	738**57-58-61	
19	734	684B/47-49-53	737B/54-55-58	766F/54-55-58	
				744**57-59-61	
16	740	688B/47-49-54	740B/54-55-58	773F/54-55-58	
				749**57-59-62	
13	741	691B/48-50-54	747B/54-55-58	776F/55-55-58	
			742**55-56-59	751**58-59-62	
10	741	695B/48-50-54	755B/54-55-59	780F/55-55-59	
			745**55-57-60	754**59-60-63	
5	742	701B/49-51-55	768B/55-56-59	786F/55-56-59	
			748**57-58-61	757**60-62-64	
0	743	707B/50-52-55	778F/55-56-59	792F/55-56-59	
-5	743	713B/51-52-56	784F/55-56-59	799F/55-56-59	
-10	744	720B/51-53-57	756**59-60-63	765**62-64-67	
			790F/55-56-59	805F/55-56-59	
			760**60-62-65	769**64-65-68	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21/F2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22

ZPPP

*** FLAPS 01 *** AIR COND OFF ANTI-ICE OFF				CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26				DATED 07-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
61	58			
55A	574	634F/38-38-40	662F/38-38-40	672F/38-38-40
		595**47-48-50	605**54-55-56	605**54-55-56
52A	588	646F/39-40-42	676F/40-40-42	686F/40-40-42
		608**48-49-51	620**55-56-58	620**55-56-58
49A	603	653T/41-41-43	689F/41-41-43	700F/41-41-43
		620**48-49-51	634**57-58-60	635**57-58-60
46A	617	660T/42-43-45	703F/43-43-45	713F/43-43-45
		631**48-49-52	647**57-58-60	650**59-60-62
43A	632	667T/44-45-47	717F/45-45-47	728F/45-45-47
		642**48-49-51	660**57-58-61	666**60-62-64
40	647	664B/46-46-49	732F/46-46-49	742F/46-46-49
		652**47-48-50	672**57-58-60	678**60-61-64
37	664	660B/47-47-50	746F/48-48-51	758F/48-48-51
			685**56-57-59	691**59-60-63
34	681	664B/47-48-51	747B/49-50-52	772F/49-50-52
			696**55-56-59	704**58-59-62
31	696	668B/47-48-51	740B/51-51-54	778B/51-51-54
			707**54-55-58	715**57-59-61
28	711	672B/47-48-52	735B/52-53-55	772B/52-53-55
			717**54-55-58	725**57-58-61
25	721	677B/47-48-52	733B/53-54-56	771B/53-54-56
			724**54-55-58	733**57-58-61
22	727	680B/47-49-53	735B/53-54-57	773B/53-54-57
			729**54-55-58	738**57-58-61
19	734	684B/47-49-53	737B/54-55-58	775B/54-55-58
				744**57-59-61
16	740	688B/47-49-54	740B/54-55-58	778B/54-55-58
				749**57-59-62
13	741	691B/48-50-54	747B/54-55-58	786B/55-55-58
			742**55-56-59	751**58-59-62
10	741	695B/48-50-54	755B/54-55-59	794B/55-55-59
			745**55-57-60	754**59-60-63
5	742	701B/49-51-55	768B/55-56-59	808B/55-56-59
			748**57-58-61	757**60-62-64
0	743	707B/50-52-55	781B/55-56-59	823B/55-56-59
			752**58-59-62	761**61-63-66
-5	743	713B/51-52-56	795B/55-56-59	838B/55-56-59
			756**59-60-63	765**62-64-67
-10	744	720B/51-53-57	810B/55-56-59	854B/55-56-59
			760**60-62-65	769**64-65-68

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22/C2 ZPPP

*** FLAPS 01 ***			AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800 CFM56-7B26					DATED 07-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG		-10	0	10
61					
58					
55A	574	586F/38-38-40	617F/38-38-40	627F/38-38-40	
		581**41-41-43	595**48-48-50	599**50-51-53	
52A	588	597F/39-40-42	628F/40-40-42	639F/40-40-42	
		593**41-42-44	609**49-49-51	613**51-52-54	
49A	603	608F/41-41-43	640F/41-41-43	651F/41-41-43	
		606**42-43-45	622**50-50-52	626**52-53-55	
46A	617	620F/42-43-45	652F/43-43-45	663F/43-43-45	
		618**43-43-46	635**50-51-53	640**53-54-56	
43A	632	631F/44-44-47	664F/45-45-47	676F/45-45-47	
			648**51-52-54	654**54-54-57	
40	647	643F/45-46-48	677F/46-46-49	689F/46-46-49	
			663**52-53-55	668**55-55-58	
37	664	655F/46-47-50	691F/48-48-51	703F/48-48-51	
			678**53-54-56	684**55-56-59	
34	681	664B/47-48-51	704F/49-50-52	717F/49-50-52	
			693**54-55-57	699**56-57-60	
31	696	668B/47-48-51	717F/51-51-54	730F/51-51-54	
			707**54-55-58	713**57-58-61	
28	711	672B/47-48-52	729F/52-53-55	741F/52-53-55	
			717**54-55-58	725**57-58-61	
25	721	677B/47-48-52	733B/53-54-56	751F/53-54-56	
			724**54-55-58	733**57-58-61	
22	727	680B/47-49-53	735B/53-54-57	758F/53-54-57	
			729**54-55-58	738**57-58-61	
19	734	684B/47-49-53	737B/54-55-58	766F/54-55-58	
				744**57-59-61	
16	740	688B/47-49-54	740B/54-55-58	773F/54-55-58	
				749**57-59-62	
13	741	691B/48-50-54	747B/54-55-58	776F/55-55-58	
			742**55-56-59	751**58-59-62	
10	741	695B/48-50-54	755B/54-55-59	780F/55-55-59	
			745**55-57-60	754**59-60-63	
5	742	701B/49-51-55	768B/55-56-59	786F/55-56-59	
			748**57-58-61	757**60-62-64	
0	743	707B/50-52-55	778F/55-56-59	792F/55-56-59	
-5	743	713B/51-52-56	784F/55-56-59	799F/55-56-59	
-10	744	720B/51-53-57	756**59-60-63	765**62-64-67	
			790F/55-56-59	805F/55-56-59	
			760**60-62-65	769**64-65-68	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3780 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22/C2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 6903 FT

RUNWAY 22/J ZPPP

		*** FLAPS 01 ***		AIR COND OFF	ANTI-ICE OFF	CHANGSHUIJICHANG KM/SOUTHWEST
737-800		CFM56-7B26		DATED 07-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)				
C	100KG	-10	0	10		
61	58	55A 574	601F/38-38-40 588**44-45-47	632F/38-38-40 601**51-52-54	641F/38-38-40 605**54-55-56	
52A	588	52A 588	613F/39-40-42 601**45-46-48	644F/40-40-42 615**52-53-55	654F/40-40-42 619**55-56-58	
49A	603	49A 603	624F/41-41-43 614**46-46-49	656F/41-41-43 628**53-54-56	667F/41-41-43 632**56-57-59	
46A	617	46A 617	636F/42-43-45 627**46-47-50	669F/43-43-45 642**54-55-57	680F/43-43-45 646**57-58-60	
43A	632	43A 632	648F/44-45-47 640**47-48-51	681F/45-45-47 656**55-56-58	693F/45-45-47 660**57-59-61	
40	647	40 647	660F/46-46-49 652**47-48-50	695F/46-46-49 671**56-57-59	707F/46-46-49 675**58-59-62	
37	664	37 664	660B/47-47-50	709F/48-48-51 685**56-57-59	721F/48-48-51 691**59-60-63	
34	681	34 681	664B/47-48-51	723F/49-50-52 696**55-56-59	735F/49-50-52 704**58-59-62	
31	696	31 696	668B/47-48-51	736F/51-51-54 707**54-55-58	749F/51-51-54 715**57-59-61	
28	711	28 711	672B/47-48-52	735B/52-53-55 717**54-55-58	761F/52-53-55 725**57-58-61	
25	721	25 721	677B/47-48-52	733B/53-54-56 724**54-55-58	769F/53-54-56 733**57-58-61	
22	727	22 727	680B/47-49-53	735B/53-54-57 729**54-55-58	773B/53-54-57 738**57-58-61	
19	734	19 734	684B/47-49-53	737B/54-55-58	775B/54-55-58 744**57-59-61	
16	740	16 740	688B/47-49-54	740B/54-55-58	778B/54-55-58 749**57-59-62	
13	741	13 741	691B/48-50-54	747B/54-55-58 742**55-56-59	786B/55-55-58 751**58-59-62	
10	741	10 741	695B/48-50-54	755B/54-55-59 745**55-57-60	794B/55-55-59 754**59-60-63	
5	742	5 742	701B/49-51-55	768B/55-56-59 748**57-58-61	803F/55-56-59 757**60-62-64	
0	743	0 743	707B/50-52-55	781B/55-56-59 752**58-59-62	809F/55-56-59 761**61-63-66	
-5	743	-5 743	713B/51-52-56	795B/55-56-59 756**59-60-63	816F/55-56-59 765**62-64-67	
-10	744	-10 744	720B/51-53-57	807F/55-56-59 760**60-62-65	822F/55-56-59 769**64-65-68	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 4000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 22/J NONE

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 5220 FT

RUNWAY 02

ZPWS

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	PUZHEHEIJICHANG WS/SOUTHWEST DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61				
58A	581	514F/23-24-28	547F/28-28-32	559F/30-30-33
55A	596	524F/24-25-30	558F/29-29-33	569F/31-31-35
52A	611	533F/25-26-31	568F/30-30-35	580F/32-32-36
49A	625	543F/25-27-32	578F/31-31-36	590F/33-33-37
46A	640	553F/26-28-33	588F/32-32-37	601F/34-34-38
43	656	563F/27-29-35	599F/33-33-38	612F/35-35-40
40	673	573F/28-30-36	611F/34-35-40	624F/36-36-41
37	691	583F/29-31-37	623F/35-36-41	636F/37-37-43
34	706	593F/29-32-38	633F/36-37-42	646F/38-38-44
31	720	601F/30-32-39	643F/36-38-44	656F/38-39-45
28	731	608F/31-33-40	651F/37-39-44	665F/39-40-46
25	738	614F/31-34-41	657F/38-39-45	671F/40-41-46
22	746	620F/32-34-42	664F/38-40-46	678F/40-41-47
19	751	625F/32-35-42	670F/39-40-46	684F/41-42-48
16	752	628F/33-35-42	673F/39-41-47	687F/41-42-48
13	752	631F/33-36-43	676F/40-41-47	690F/42-43-48
10	752	634F/34-36-43	679F/40-41-47	694F/42-43-49
5	753	639F/34-37-44	685F/41-42-48	699F/43-44-49
0	754	645F/35-37-44	690F/42-43-48	705F/44-44-50
-5	754	650F/36-38-45	696F/42-43-49	711F/44-45-50
-10	755	656F/37-39-45	701F/43-44-49	717F/45-46-51

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

**=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.14 PERCENT FOR TODA AND -0.65 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 5220 FT

RUNWAY 20

ZPWS

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

PUZHEHEIJICHANG

WS/SOUTHWEST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C 100KG -10 0 10

61

58A	581	506F/23-23-28	539F/27-27-31	550F/29-29-32
55A	596	516F/23-24-29	549F/28-28-32	560F/30-30-34
52A	611	526F/24-25-30	559F/29-29-34	571F/31-31-35
49A	625	535F/25-26-31	569F/30-30-35	581F/32-32-36
46A	640	545F/26-27-33	579F/31-31-36	591F/33-33-37
43	656	555F/27-28-34	590F/32-32-38	602F/34-34-39
40	673	566F/28-29-35	602F/33-33-39	614F/35-35-40
37	691	576F/28-30-37	613F/34-35-40	626F/36-36-42
34	706	585F/29-31-38	624F/35-36-42	637F/37-37-43
31	720	594F/30-32-39	633F/36-37-43	646F/38-38-44
28	731	601F/31-32-40	641F/37-37-44	654F/39-39-45
25	738	606F/31-33-40	647F/37-38-44	661F/39-40-46
22	746	612F/32-33-41	654F/38-39-45	668F/40-40-46
19	751	617F/32-34-41	659F/39-39-46	673F/41-41-47
16	752	620F/33-34-42	662F/39-40-46	676F/41-41-47
13	752	623F/33-35-42	665F/39-40-46	680F/41-41-47
10	752	626F/33-35-42	669F/40-40-46	683F/42-42-48
5	753	631F/34-36-43	674F/40-41-47	688F/42-42-48
0	754	636F/35-36-43	679F/41-41-47	694F/43-43-49
-5	754	642F/36-37-44	685F/42-42-48	699F/44-44-49
-10	755	647F/36-38-44	690F/43-43-48	705F/44-44-50

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF

75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 610 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.65 PERCENT FOR TODA AND 0.14 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20 315 6390 0 312 6545 0 384 6778 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 05

ZSAM

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

GAOQI JICHANG

XM/EASTERN CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	670	715F/40-42-45 693**49-51-54	757F/41-42-45 704**54-57-60	772F/42-42-45 704**55-57-60
58A	686	729F/42-43-47 708**50-52-55	771F/43-43-47 721**56-58-62	786F/43-43-47 721**56-58-62
55A	702	743F/43-45-49 723**50-53-56	786F/44-45-49 739**57-60-64	801F/44-45-49 739**58-60-64
52	720	758F/45-46-50 740**51-54-57	802F/45-46-50 758**59-62-66	817F/46-46-50 758**59-62-66
49	739	773F/46-48-52 754**50-53-57	818F/47-48-52 776**60-63-66	834F/47-48-52 778**61-64-68
46	760	784B/47-50-54 766**49-52-56	835F/48-50-54 790**58-61-65	851F/49-50-54 790**58-61-65
43	779	777B/49-51-56	851F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59
40	800	783B/48-52-56	862F/50-52-57	862F/50-52-57
37	820	788B/48-52-57	862F/49-52-57	862F/50-52-57
34	839	797B/48-52-58	862F/49-52-58	862F/49-52-58
31	859	808B/47-51-58	862F/48-51-58	862F/49-51-58
28	862	817B/47-51-58	862F/48-51-58	862F/48-51-58
25	862	825B/47-51-58	862F/48-51-58	862F/48-51-58
22	862	833B/47-51-58	862F/48-51-58	862F/48-51-58
19	862	841B/47-51-58	862F/48-51-58	862F/48-51-58
16	862	849B/47-51-58	862F/48-51-58	862F/48-51-58
13	862	857B/47-51-58	862F/48-51-58	862F/48-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF

75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

05 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 05/A2 ZSAM

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	GAOQIJICHANG XM/EASTERN CHINA DATED 10-JUN-2019
737-800 CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 670	697F/40-42-45 684**45-47-51	738F/41-42-45 703**54-56-59	752F/42-42-45 704**55-57-60	
58A 686	710F/42-43-47 699**46-48-51	752F/43-43-47 718**54-57-60	767F/43-43-47 721**56-58-62	
55A 702	723F/43-45-49 714**47-49-52	766F/44-45-49 734**55-58-61	781F/44-45-49 739**58-60-64	
52 720	737F/45-46-50 730**47-50-53	782F/45-46-50 751**56-58-62	797F/46-46-50 757**59-61-65	
49 739	752F/46-48-52 747**48-51-55	798F/47-48-52 769**56-59-63	813F/47-48-52 774**59-62-66	
46 760	768F/47-50-54 764**49-51-56	815F/48-50-54 786**57-60-64	830F/49-50-54 790**58-61-65	
43 779	777B/49-51-56	831F/50-52-56 790**53-55-59	847F/50-52-56 790**53-55-59	
40 800	783B/48-52-56	847F/50-52-57	862F/50-52-57	
37 820	788B/48-52-57	862F/49-52-57	862F/50-52-57	
34 839	797B/48-52-58	862F/49-52-58	862F/49-52-58	
31 859	808B/47-51-58	862F/48-51-58	862F/49-51-58	
28 862	817B/47-51-58	862F/48-51-58	862F/48-51-58	
25 862	825B/47-51-58	862F/48-51-58	862F/48-51-58	
22 862	833B/47-51-58	862F/48-51-58	862F/48-51-58	
19 862	841B/47-51-58	862F/48-51-58	862F/48-51-58	
16 862	849B/47-51-58	862F/48-51-58	862F/48-51-58	
13 862	857B/47-51-58	862F/48-51-58	862F/48-51-58	
10 862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
5 862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0 -5	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-10 862	862F/47-51-58	862F/48-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3220 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05/A2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 05/A3 ZSAM

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

GAOQI JICHANG

XM/EASTERN CHINA

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	CLIMB -10	WIND 0	CLIMB 10
61A	670	655F/39-40-44	697F/41-42-45	711F/42-42-45
			684**46-47-51	691**49-50-53
58A	686	667F/40-41-45	710F/43-43-47	725F/43-43-47
			699**47-48-52	706**50-51-54
55A	702	680F/41-42-47	723F/44-45-49	738F/44-45-49
			714**48-49-52	721**50-52-55
52	720	693F/42-43-48	738F/45-46-50	753F/46-46-50
			730**48-50-53	737**51-53-56
49	739	707F/43-45-49	752F/47-48-52	768F/47-48-52
			747**49-51-54	755**52-54-57
46	760	722F/44-46-51	768F/48-50-54	784F/49-50-54
			764**50-51-56	773**52-54-58
43	779	736F/44-47-52	783F/50-52-56	800F/50-52-56
			782**50-52-57	790**53-55-59
40	800	749F/45-48-54	800F/50-52-57	816F/50-52-57
37	820	762F/46-49-55	814F/49-52-57	832F/50-52-57
34	839	775F/46-50-56	827F/49-52-58	846F/49-52-58
31	859	788F/47-51-58	841F/48-51-58	860F/49-51-58
28	862	795F/47-51-58	849F/48-51-58	862F/48-51-58
25	862	799F/47-51-58	853F/48-51-58	862F/48-51-58
22	862	803F/47-51-58	857F/48-51-58	862F/48-51-58
19	862	806F/47-51-58	862F/48-51-58	862F/48-51-58
16	862	810F/47-51-58	862F/48-51-58	862F/48-51-58
13	862	814F/47-51-58	862F/48-51-58	862F/48-51-58
10	862	818F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	825F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	831F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	838F/47-51-58	862F/48-51-58	862F/49-51-58
-10	862	845F/47-51-58	862F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF

75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2850 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY

RUNWAY SLOPES ARE -0.20 PERCENT FOR TODA AND -0.20 PERCENT FOR ASDA

LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

05/A3

NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 23 ZSAM

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

GAOQIJICHANG
XM/EASTERN CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10
61A	670	629*/36-37-41	648*/39-39-43	654*/40-40-44	
		644**46-49-53	665**50-52-56	672**51-53-56	
58A	686	644*/37-38-43	663*/40-41-45	669*/41-41-45	
		659**48-51-55	681**51-54-57	688**52-54-58	
55A	702	659*/39-40-45	678*/42-42-46	684*/43-43-47	
		674**49-52-57	696**53-55-59	704**54-56-60	
52	720	675*/40-41-46	695*/43-44-48	701*/44-44-49	
		690**51-54-59	713**54-57-61	721**55-58-62	
49	739	692*/41-43-48	713*/44-45-50	719*/45-46-50	
		707**52-56-60	731**55-58-63	739**57-59-63	
46	760	710*/43-45-50	731*/46-47-52	738*/47-48-52	
		724**52-56-61	749**57-60-65	757**58-61-65	
43	779	728*/44-46-52	749*/47-48-53	756*/48-49-54	
		741**53-57-62	767**58-62-66	776**60-63-67	
40	800	746*/45-48-53	768*/48-50-55	775*/49-51-56	
		758**52-56-61	786**60-64-68	790**57-59-64	
37	820	764*/46-49-55	787*/50-52-57	794*/50-52-57	
		772**51-55-60	790**51-53-59		
34	839	781*/47-51-57	803*/49-52-58	810*/50-52-58	
		786**50-54-60			
31	859	797*/48-51-58	819*/49-51-58	827*/49-51-58	
28	862	804*/48-51-58	826*/49-51-58	833*/49-51-58	
25	862	805*/48-51-58	828*/49-51-58	835*/49-51-58	
22	862	806*/48-51-58	829*/49-51-58	836*/49-51-58	
19	862	808*/48-51-58	830*/49-51-58	837*/49-51-58	
16	862	809*/48-51-58	831*/49-51-58	839*/49-51-58	
13	862	810*/48-51-58	832*/49-51-58	840*/49-51-58	
10	862	811*/48-51-58	833*/49-51-58	841*/49-51-58	
5	862	813*/48-51-58	835*/49-51-58	843*/49-51-58	
0	862	814*/48-51-58	837*/49-51-58	845*/49-51-58	
-5	862	816*/48-51-58	838*/49-51-58	846*/49-51-58	
-10	862	817*/48-51-58	840*/49-51-58	847*/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 610 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
23	43	848	0	49	973	0	72	1296	0
	85	1340	0	269	3470	0	384	6020	0
	210	11869	0	387	6131	0	135	2728	0
	128	2641	0	243	4775	0	226	3950	0
	226	3756	0	95	1710	0	128	2532	0
	269	4077	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 59 FT

RUNWAY 23/A9 ZSAM

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				GAOQI JICHANG XM/EASTERN CHINA DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
61A	670	626*/36-36-41 640**46-49-53	645*/39-39-43 662**49-52-55	651*/40-40-44 669**51-52-56
58A	686	641*/37-38-43	660*/40-40-45	666*/41-41-45
		655**47-50-55	677**51-53-57	684**52-54-58
55A	702	655*/38-39-44 669**48-51-55	675*/41-42-46 692**52-55-59	682*/42-42-47 700**53-56-59
52	720	672*/40-41-46 685**49-52-56	692*/43-43-48 709**54-56-60	698*/44-44-48 717**55-57-61
49	739	689*/41-43-48	709*/44-45-50	716*/45-46-50
		701**49-52-57	727**55-58-62	735**56-59-63
46	760	707*/42-44-50 718**49-53-58	728*/45-46-51 745**56-60-64	735*/46-47-52 753**58-61-65
43	779	724*/44-46-51	746*/47-48-53	753*/48-49-54
		735**50-54-59	762**58-61-66	771**59-62-67
40	800	742*/45-47-53 752**50-54-60	764*/48-50-55 780**58-62-67	772*/49-50-56 790**60-64-69
37	820	760*/46-49-55	783*/49-51-57	790*/50-52-57
		768**51-55-61	790**52-55-60	
34	839	776*/47-50-56 783**50-54-60	799*/49-52-58	807*/50-52-58
31	859	793*/48-51-58	816*/49-51-58	823*/49-51-58
28	862	800*/48-51-58	822*/49-51-58	830*/49-51-58
25	862	801*/48-51-58	824*/49-51-58	831*/49-51-58
22	862	802*/48-51-58	825*/49-51-58	833*/49-51-58
19	862	804*/48-51-58	826*/49-51-58	834*/49-51-58
16	862	805*/48-51-58	827*/49-51-58	835*/49-51-58
13	862	806*/48-51-58	829*/49-51-58	836*/49-51-58
10	862	807*/48-51-58	830*/49-51-58	837*/49-51-58
5	862	809*/48-51-58	832*/49-51-58	839*/49-51-58
0	862	810*/48-51-58	833*/49-51-58	841*/49-51-58
-5	862	812*/48-51-58	835*/49-51-58	843*/49-51-58
-10	862	813*/48-51-58	836*/49-51-58	844*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 600 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
23/A9	43	848	0	49	973	0	72	1296	0
	85	1340	0	269	3470	0	384	6020	0
	210	11869	0	387	6131	0	135	2728	0
	128	2641	0	243	4775	0	226	3950	0
	226	3756	0	95	1710	0	128	2532	0
	269	4077	0						

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 144 FT

RUNWAY 03

ZSCN

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	CHANGBEIJICHANG NC/NORTH CHINA			
737-800	CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE							
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)							
C 100KG	-10	0	10				
61A 668	669*/41-41-45 682**49-50-54	685*/41-41-45 702**56-57-60	690*/41-41-45 702**56-57-60				
58A 684	684*/43-43-47 697**50-51-55	701*/43-43-47 719**57-58-62	706*/43-43-47 719**57-58-62				
55A 701	700*/44-44-48 711**51-52-56	718*/45-45-48 736**58-60-63	723*/45-45-48 737**59-60-63				
52 718	717*/46-46-50 728**51-53-57	736*/46-46-50 753**59-60-64	741*/46-46-50 756**60-62-65				
49 737	735*/47-48-52 743**51-52-56	754*/48-48-52 771**60-61-65	760*/48-48-52 776**62-64-67				
46 757	754*/48-49-54 757**50-51-55	774*/49-50-54 789**60-62-65	780*/50-50-54 790**60-62-66				
43 777	768B/49-50-55	793*/51-51-56 790**55-56-60	799*/51-51-56 790**55-56-60				
40 798	773B/49-51-56	811*/51-52-57	817*/52-52-57				
37 818	779B/49-51-56	828*/51-52-57	835*/51-52-57				
34 837	784B/49-51-57	844*/50-52-57	851*/50-52-57				
31 857	789B/48-51-58	860*/49-51-58	862F/50-51-58				
28 862	798B/48-51-58	862F/49-51-58	862F/49-51-58				
25 862	806B/48-51-58	862F/49-51-58	862F/49-51-58				
22 862	813B/48-51-58	862F/49-51-58	862F/50-51-58				
19 862	821B/48-51-58	862F/49-51-58	862F/50-51-58				
16 862	829B/48-51-58	862F/49-51-58	862F/50-51-58				
13 862	837B/48-51-58	862F/49-51-58	862F/50-51-58				
10 862	846B/48-51-58	862F/49-51-58	862F/50-51-58				
5 862	856*/48-51-58	862F/49-51-58	862F/50-51-58				
0 862	859*/48-51-58	862F/49-51-58	862F/50-51-58				
-5 862	860*/48-51-58	862F/49-51-58	862F/50-51-58				
-10 862	862F/48-51-58	862F/49-51-58	862F/50-51-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.30 PERCENT FOR TODA AND -0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 92 1949 0 98 1939 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 144 FT

RUNWAY 21 ZSCN

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	CHANGBEIJICHANG NC/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 668	715F/40-41-45 692**49-51-54	757F/41-41-45 702**54-57-60	771F/41-41-45 702**54-57-60
58A 684	728F/42-43-47	771F/42-43-47	786F/43-43-47
	707**50-52-55	719**56-58-62	719**56-58-62
55A 701	742F/43-45-48 722**50-53-56	786F/44-45-48 737**57-60-63	801F/44-45-48 737**57-60-63
52 718	757F/44-46-50 738**51-54-57	801F/45-46-50 756**59-62-65	817F/45-46-50 756**59-62-65
49 737	773F/46-48-52 752**50-53-57	818F/47-48-52 774**60-63-67	833F/47-48-52 776**61-64-67
46 757	783B/47-50-54 764**49-52-56	835F/48-50-54 790**59-62-66	851F/48-50-54 790**59-62-66
43 777	776B/48-51-56	850F/49-51-56	862F/50-51-56
		790**53-56-60	790**53-56-60
40 798	781B/48-51-56 786B/48-52-57	862F/50-52-57 862F/49-52-57	862F/50-52-57 862F/50-52-57
37 818	793B/48-52-57	862F/49-52-57	862F/49-52-57
34 837	804B/47-51-58	862F/48-51-58	862F/49-51-58
31 857	813B/47-51-58	862F/48-51-58	862F/48-51-58
28 862	821B/47-51-58	862F/48-51-58	862F/48-51-58
25 862	829B/47-51-58	862F/48-51-58	862F/48-51-58
22 862	837B/47-51-58	862F/48-51-58	862F/48-51-58
19 862	845B/47-51-58	862F/48-51-58	862F/48-51-58
16 862	853B/47-51-58	862F/48-51-58	862F/48-51-58
13 862	862B/47-51-58	862F/48-51-58	862F/48-51-58
10 862	862F/47-51-58	862F/48-51-58	862F/48-51-58
5 862	862F/47-51-58	862F/48-51-58	862F/48-51-58
0 862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5 862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-10 862	862F/47-51-58	862F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.30 PERCENT FOR TODA AND -0.30 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 49 FT

RUNWAY 03 ZSFZ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				CHANGLEJICHANG FZ/NORTH CHINA
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	670	728F/41-42-45 699**52-54-57	765F/42-42-45 704**55-57-60	777F/42-42-45 704**55-57-60
58A	686	742F/43-43-47 715**53-55-58	780F/43-43-47 721**57-58-62	792F/43-43-47 721**57-58-62
55A	703	756F/44-45-49 730**53-55-59	796F/45-45-49 739**58-60-64	808F/45-45-49 739**58-60-64
52	721	771F/45-46-50 742**52-54-58	812F/46-46-50 758**60-62-66	825F/46-46-50 758**60-62-66
49	740	785F/47-48-52 754**51-53-57	830F/47-48-52 778**61-64-68	843F/48-48-52 778**62-64-68
46	760	787B/48-50-54 767**50-52-56	845F/49-50-54 790**59-61-65	862F/49-50-54 790**59-61-65
43	780	779B/49-52-56	860F/50-52-56 790**53-55-59	862F/51-52-56 790**54-55-59
40	800	784B/49-52-57	862F/51-52-57	862F/51-52-57
37	820	790B/49-52-57	862F/50-52-57	862F/50-52-57
34	840	801B/48-52-58	862F/49-52-58	862F/50-52-58
31	860	812B/48-51-58	862F/49-51-58	862F/49-51-58
28	862	821B/48-51-58	862F/49-51-58	862F/49-51-58
25	862	829B/48-51-58	862F/49-51-58	862F/49-51-58
22	862	837B/48-51-58	862F/49-51-58	862F/49-51-58
19	862	845B/48-51-58	862F/49-51-58	862F/49-51-58
16	862	854B/48-51-58	862F/49-51-58	862F/49-51-58
13	862	862F/48-51-58	862F/49-51-58	862F/49-51-58
10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58
5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58
0	862	862F/48-51-58	862F/49-51-58	862F/49-51-58
-5	862	862F/48-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.22 PERCENT FOR TODA AND 0.22 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 49 FT

RUNWAY 21 ZSFZ

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	CHANGLEJICHANG FZ/NORTH CHINA		
737-800 CFM56-7B26				DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE						
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
C 100KG		-10	0	10		
61A 670	580*/29-31-36	597*/32-33-38	603*/33-34-39			
	598**39-43-48	617**43-46-50	623**44-47-51			
58A 686	594*/30-32-38	611*/34-34-40	617*/35-35-40			
	613**41-45-50	632**44-47-52	638**45-48-53			
55A 703	608*/32-34-40	626*/35-36-42	632*/36-37-42			
	627**42-46-52	646**46-49-54	653**47-50-55			
52 721	623*/33-35-42	642*/36-37-43	648*/37-38-44			
	643**44-48-54	663**47-51-56	669**48-52-56			
49 740	640*/35-37-43	658*/38-39-45	665*/39-40-46			
	660**45-50-55	680**49-52-58	687**50-53-58			
46 760	657*/36-39-45	676*/39-41-47	682*/40-41-47			
	677**47-52-57	698**50-54-59	705**51-55-60			
43 780	673*/37-40-47	692*/41-42-49	699*/42-43-49			
	694**48-53-59	715**52-56-61	722**53-57-62			
40 800	687*/38-41-48	707*/42-44-50	714*/43-44-51			
	709**49-55-61	730**53-57-63	737**54-58-64			
37 820	702*/39-43-50	723*/43-45-52	729*/44-46-52			
	724**50-56-62	746**54-59-65	753**55-60-65			
34 840	718*/41-44-52	739*/44-46-53	746*/45-47-54			
	741**52-58-64	763**55-60-66	771**56-61-67			
31 860	735*/42-45-53	756*/45-48-55	763*/46-49-56			
	758**53-59-66	781**56-62-68	789**58-63-69			
28 862	741*/42-46-54	763*/45-48-56	770*/46-49-56			
	764**53-59-66	788**57-63-69	790**55-59-66			
25 862	742*/42-46-54	763*/45-48-56	771*/46-49-56			
	765**53-60-67	789**57-63-69	790**54-59-65			
22 862	743*/42-46-54	764*/45-48-56	771*/47-49-56			
	766**53-60-67	790**57-63-69	790**54-58-65			
19 862	743*/42-46-54	765*/46-49-56	772*/47-49-56			
	767**53-60-67	790**57-63-69	790**54-58-64			
16 862	744*/42-46-54	765*/46-49-56	773*/47-49-56			
	768**54-60-67	790**57-62-69	790**54-58-64			
13 862	744*/42-46-54	766*/46-49-56	773*/47-49-56			
	768**54-60-67	790**56-62-68	790**53-58-64			
10 862	744*/42-46-54	766*/46-49-56	774*/47-49-57			
	769**54-61-67	790**56-62-68	790**53-57-64			
5 862	745*/43-46-54	767*/46-49-56	775*/47-49-57			
	770**54-61-67	790**56-61-67	790**53-57-63			
0 862	745*/43-46-54	768*/46-49-56	775*/47-50-57			
	770**54-61-67	790**55-61-67	790**53-57-63			
-5 862	746*/43-46-54	768*/46-49-56	776*/47-50-57			
	770**54-61-67	790**55-60-66	790**53-57-63			
-10 862	746*/43-46-54	768*/46-49-56	776*/47-50-57			
	771**54-61-67	790**55-60-66	790**53-56-63			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2360 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY								
	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
21	1083	16663	0	1516	17481	0	1703	18966	0
	1493	17882	0	928	14560	0	1562	15407	0
	1841	17682	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 79 FT

RUNWAY 01 ZSJN

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				YAOQIANGJICHANG JN/NORTH CHINA DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10 0 10	
61A	669	685*/41-42-45	703*/42-42-45	708*/42-42-45
		693**49-51-54	704**55-57-60	704**55-57-60
58A	685	700*/42-43-47	719*/43-43-47	725*/43-43-47
		708**51-53-56	721**56-58-62	721**56-58-62
55A	702	716*/44-45-49	735*/44-45-49	741*/45-45-49
		723**52-54-58	738**58-60-64	738**58-60-64
52	720	733*/45-46-50	752*/46-46-50	759*/46-46-50
		740**52-55-58	758**59-62-65	758**59-62-65
49	739	751*/46-48-52	770*/47-48-52	777*/47-48-52
		753**51-53-57	778**61-64-68	778**61-64-68
46	759	769*/48-50-54	790*/48-50-54	796*/49-50-54
		766**50-52-56	790**59-61-65	790**59-61-65
43	779	778B/49-51-56	808*/50-52-56	815*/50-52-56
			790**53-55-59	790**53-55-59
40	799	783B/49-52-57	826*/50-52-57	833*/51-52-57
37	820	789B/49-52-57	842*/50-52-57	849*/50-52-57
34	839	798B/48-52-58	857*/49-52-58	862F/49-52-58
31	859	809B/47-51-58	862F/49-51-58	862F/49-51-58
28	862	818B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	826B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	834B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	842B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	850B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	858B/47-51-58	862F/48-51-58	862F/49-51-58
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 43 985 0 52 983 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 79 FT

RUNWAY 19 ZSJN

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF		YAOQIANGJICHANG JN/NORTH CHINA DATED 10-JUN-2019	
737-800 CFM56-7B26		*A* INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10	0	10	
61A	669	611*/33-35-40	616*/35-35-40	618*/35-35-40	
		645**46-49-53	650**48-50-54	652**48-50-54	
58A	685	627*/35-36-41	632*/36-37-42	634*/37-37-42	
		661**48-51-55	667**49-52-56	669**50-52-56	
55A	702	642*/36-38-43	648*/38-39-44	650*/38-39-44	
		678**49-53-57	684**51-54-58	686**51-54-58	
52	720	660*/38-40-45	665*/39-40-46	667*/40-40-46	
		696**51-55-59	702**53-56-60	704**53-56-60	
49	739	678*/40-41-47	684*/41-42-47	686*/42-42-48	
		716**53-57-61	722**54-57-62	724**55-58-62	
46	759	697*/41-43-49	703*/43-44-49	705*/43-44-49	
		734**54-58-62	742**56-59-64	744**56-60-64	
43	779	715*/42-45-51	721*/44-45-51	723*/44-46-51	
		747**53-57-62	761**57-61-66	764**58-62-66	
40	799	732*/43-46-52	738*/45-47-53	740*/46-47-53	
		758**52-56-61	779**59-63-68	781**59-63-68	
37	820	748*/45-48-54	754*/46-48-54	757*/47-49-55	
		769**51-55-61	790**57-61-67	790**57-61-66	
34	839	766*/46-49-56	772*/47-50-56	775*/48-50-56	
		781**50-54-60	790**52-56-62	790**52-55-61	
31	859	785*/47-51-57	791*/49-51-58	793*/49-51-58	
		790**48-53-59			
28	862	792*/47-51-58	798*/48-51-58	800*/49-51-58	
25	862	792*/47-51-58	798*/48-51-58	800*/49-51-58	
22	862	792*/47-51-58	798*/48-51-58	800*/49-51-58	
19	862	792*/47-51-58	798*/48-51-58	800*/49-51-58	
16	862	791*/47-51-58	798*/48-51-58	800*/49-51-58	
13	862	791*/47-51-58	798*/48-51-58	800*/49-51-58	
10	862	791*/47-51-58	797*/48-51-58	800*/49-51-58	
5	862	790*/47-51-58	797*/48-51-58	799*/49-51-58	
0	862	789*/47-51-58	796*/49-51-58	798*/49-51-58	
-5	862	788*/47-51-58	795*/49-51-58	797*/49-51-58	
-10	862	790**48-52-58			
		787*/47-51-58	794*/49-51-58	796*/49-51-58	
		790**48-52-59			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 2320 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.02 PERCENT FOR TODA AND 0.02 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
19 66 1199 0 66 1220 0 1650 26808 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 69 FT

RUNWAY 03

ZSLG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF

BAITABUJICHANG
LYG/NORTH CHINA
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	669	609F/33-34-39	649F/39-39-43	663F/41-41-45
58A	686	620F/34-35-41	661F/40-40-45	675F/42-42-46
55A	702	632F/35-37-42	673F/41-41-46	687F/43-43-47
52	720	644F/36-38-44	686F/42-43-47	701F/44-44-49
49	739	656F/37-39-45	700F/43-44-49	715F/45-45-50
46	759	669F/38-40-46	714F/44-45-50	730F/46-47-52
43	779	682F/39-41-48	729F/45-46-52	745F/47-48-53
40	800	695F/40-42-49	744F/46-48-53	760F/48-49-55
37	820	708F/40-43-50	758F/47-49-55	775F/49-50-56
34	839	719F/41-44-52	770F/47-50-56	788F/49-51-57
31	859	731F/42-45-53	783F/48-51-57	801F/49-51-58
28	862	738F/42-46-54	790F/48-51-58	808F/49-51-58
25	862	741F/42-46-54	794F/49-51-58	812F/49-51-58
22	862	745F/43-46-54	798F/49-51-58	816F/49-51-58
19	862	748F/43-47-54	802F/49-51-58	820F/49-51-58
16	862	752F/44-47-55	806F/49-51-58	824F/49-51-58
13	862	756F/44-48-55	810F/49-51-58	829F/49-51-58
10	862	759F/44-48-55	814F/49-51-58	833F/49-51-58
5	862	765F/45-49-56	820F/49-51-58	840F/49-51-58
0	862	771F/46-49-56	827F/49-51-58	847F/49-51-58
-5	862	778F/46-50-57	834F/49-51-58	854F/49-51-58
-10	862	784F/47-50-57	841F/49-51-58	861F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMBRUNWAY IS 2500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.15 PERCENT FOR TODA AND 0.15 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
03 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 69 FT

RUNWAY 21 ZSLG

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF BAITABUJICHANG
 737-800 CFM56-7B26 LYG/NORTH CHINA
 A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE DATED 10-JUN-2019

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	669	613F/33-35-40	653F/39-40-44	667F/41-41-45
58A	686	624F/34-36-41	665F/40-41-45	679F/42-42-46
55A	702	635F/35-37-42	677F/41-42-46	692F/43-44-48
52	720	648F/36-38-44	690F/42-43-48	705F/44-45-49
49	739	660F/37-39-45	704F/43-44-49	720F/45-46-50
46	759	673F/38-40-47	719F/44-46-51	734F/46-47-52
43	779	686F/39-41-48	733F/45-47-52	749F/47-48-53
40	800	699F/40-43-49	748F/46-48-54	765F/48-50-55
37	820	711F/41-44-51	762F/47-49-55	780F/49-51-56
34	839	723F/41-45-52	774F/47-50-56	792F/49-52-58
31	859	735F/42-45-53	787F/48-51-57	805F/49-51-58
28	862	741F/42-46-54	794F/48-51-58	813F/48-51-58
25	862	745F/42-46-54	798F/48-51-58	817F/48-51-58
22	862	748F/43-47-54	802F/48-51-58	821F/48-51-58
19	862	752F/43-47-55	806F/48-51-58	825F/48-51-58
16	862	756F/44-48-55	810F/48-51-58	829F/49-51-58
13	862	759F/44-48-55	814F/48-51-58	833F/49-51-58
10	862	763F/44-48-56	818F/48-51-58	837F/49-51-58
5	862	769F/45-49-56	825F/48-51-58	845F/49-51-58
0	862	776F/46-50-57	832F/48-51-58	852F/49-51-58
-5	862	782F/46-50-57	839F/48-51-58	859F/49-51-58
-10	862	788F/47-51-58	846F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.15 PERCENT FOR TODA AND -0.15 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 16 FT

RUNWAY 18 ZNST

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	XINGDONGJICHANG NT/NORTH CHINA
737-800		CFM56-7B26	DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10 0 10			
61A	670	713F/41-42-45 693**49-50-54	754F/42-42-45 705**55-57-60	767F/42-42-45 705**55-57-60	
58A	687	726F/42-43-47 707**49-51-55	768F/43-43-47 722**56-59-62	782F/43-43-47 722**56-59-62	
55A	703	740F/44-45-49 723**50-52-56	783F/44-45-49 740**58-60-64	798F/45-45-49 740**58-60-64	
52	721	755F/45-46-50 739**51-53-57	799F/46-46-50 758**59-61-65	814F/46-46-50 759**60-62-66	
49	740	771F/46-48-52 755**51-53-57	815F/47-48-52 776**59-62-66	830F/47-48-52 779**61-64-68	
46	761	785F/48-50-54 767**50-52-56	832F/49-50-54 790**58-61-65	847F/49-50-54 790**58-61-65	
43	780	779B/49-51-56	847F/50-52-56 790**53-55-59	862F/50-52-56 790**53-55-59	
40	801	784B/49-52-57	862F/50-52-57	862F/51-52-57	
37	821	790B/49-52-57	862F/50-52-57	862F/50-52-57	
34	841	800B/48-52-58	862F/49-52-58	862F/49-52-58	
31	861	811B/47-51-58	862F/49-51-58	862F/49-51-58	
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	852B/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	861B/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.02 PERCENT FOR TODA AND 0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 18 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 16 FT

RUNWAY 36 ZSNT

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	XINGDONGJICHANG NT/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 670	652*/39-40-44	672*/42-42-45	679*/42-42-45
	661**48-51-55	685**52-54-58	693**53-55-59
58A 687	667*/40-41-45	688*/43-43-47	694*/43-43-47
	676**49-53-56	701**53-56-59	709**55-57-60
55A 703	682*/41-42-47	703*/44-45-49	710*/45-45-49
	691**50-53-57	716**55-57-61	724**56-58-62
52 721	699*/42-44-48	720*/46-46-50	727*/46-46-50
	707**49-52-57	733**56-59-63	742**57-60-64
49 740	716*/44-46-50	738*/47-48-52	745*/47-48-52
	724**50-53-58	750**56-58-62	759**58-61-64
46 761	734*/45-47-52	757*/48-50-54	765*/49-50-54
	741**52-56-60	769**56-59-63	778**59-62-66
43 780	752*/46-49-54	776*/50-51-56	783*/50-52-56
	757**51-55-60	786**58-61-65	790**54-56-60
40 801	770*/47-50-55	795*/50-52-57	802*/51-52-57
	774**50-53-59		
37 821	788*/49-52-57	811*/50-52-57	818*/50-52-57
34 841	800B/48-52-58	826*/49-52-58	833*/49-52-58
31 861	811B/47-51-58	841*/48-51-58	849*/49-51-58
28 862	820B/47-51-58	848*/48-51-58	856*/49-51-58
25 862	825*/47-51-58	849*/48-51-58	858*/49-51-58
22 862	826*/47-51-58	851*/48-51-58	859*/49-51-58
19 862	828*/47-51-58	853*/48-51-58	861*/49-51-58
16 862	829*/47-51-58	854*/48-51-58	862F/49-51-58
13 862	831*/47-51-58	856*/48-51-58	862F/49-51-58
10 862	832*/47-51-58	857*/48-51-58	862F/49-51-58
5 862	835*/47-51-58	860*/48-51-58	862F/49-51-58
0 862	837*/47-51-58	862F/48-51-58	862F/49-51-58
-5 862	839*/47-51-58	862F/49-51-58	862F/49-51-58
-10 862	841*/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 36 128 1764 0 164 4001 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 210 FT

RUNWAY 15 ZSOF

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				XINQIAO JICHANG HF/NORTH CHINA
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10 0 10		
61A	666	654*/39-40-44 672**50-53-56	671*/41-41-45 692**53-55-59	677*/41-41-45 699**54-56-59
58A	683	670*/40-41-45 687**51-54-57	687*/43-43-47 708**55-57-60	693*/43-43-47 715**56-58-61
55A	699	685*/42-43-47 702**51-54-58	703*/44-44-48 725**56-59-62	709*/44-44-48 732**57-59-63
52	717	702*/43-44-49 718**52-55-59	720*/46-46-50 742**57-60-64	726*/46-46-50 749**59-61-65
49	736	720*/44-46-50 735**52-55-60	738*/47-48-52 760**59-62-66	745*/47-48-52 768**60-63-67
46	756	739*/46-48-52 750**51-55-59	758*/48-50-54 779**60-64-67	764*/49-50-54 787**62-65-68
43	776	757*/47-49-54 764**50-53-58	777*/50-51-56 790**56-58-62	783*/50-51-56 790**54-56-60
40	796	776*/48-51-56 778**49-52-57	796*/51-52-57	802*/51-52-57
37	816	787B/49-52-57	813*/50-52-57	820*/50-52-57
34	835	794B/48-52-57	830*/49-52-57	836*/50-52-57
31	855	805B/48-51-58	846*/49-51-58	853*/49-51-58
28	862	814B/47-51-58	855*/48-51-58	862*/49-51-58
25	862	822B/47-51-58	856*/48-51-58	862F/49-51-58
22	862	830B/47-51-58	858*/48-51-58	862F/49-51-58
19	862	838*/47-51-58	859*/48-51-58	862F/49-51-58
16	862	839*/47-51-58	860*/49-51-58	862F/49-51-58
13	862	840*/47-51-58	861*/49-51-58	862F/49-51-58
10	862	841*/47-51-58	862F/49-51-58	862F/49-51-58
5	862	843*/48-51-58	862F/49-51-58	862F/49-51-58
0	862	845*/48-51-58	862F/49-51-58	862F/49-51-58
-5	862	846*/48-51-58	862F/49-51-58	862F/49-51-58
-10	862	848*/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.06 PERCENT FOR TODA AND 0.06 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
15 200 3401 0 20 417 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 210 FT

RUNWAY 15/A2 ZSOF

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	XINQIAO JICHANG HF/NORTH CHINA
737-800		CFM56-7B26				DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C	100KG	-10	0	10
61A	666	650*/39-39-43	667*/41-41-45	673*/41-41-45		
		664**46-48-52	687**53-55-58	694**54-56-59		
58A	683	665*/40-41-45	683*/43-43-47	689*/43-43-47		
		679**47-49-53	703**54-56-60	710**55-57-61		
55A	699	681*/41-42-47	699*/44-44-48	705*/44-44-48		
		693**48-50-54	719**55-57-61	727**57-59-62		
52	717	698*/43-44-48	716*/45-46-50	722*/46-46-50		
		709**48-51-55	736**56-58-62	744**58-60-64		
49	736	715*/44-46-50	734*/47-48-52	741*/47-48-52		
		725**49-51-56	753**56-59-62	762**59-61-65		
46	756	734*/45-47-52	754*/48-49-54	760*/49-50-54		
		742**49-52-57	772**57-59-63	780**59-62-66		
43	776	752*/46-49-54	772*/49-51-55	779*/50-51-56		
		759**50-53-57	789**57-60-64	790**55-57-61		
40	796	771*/48-50-55	792*/51-52-57	798*/51-52-57		
		775**49-53-57				
37	816	787B/49-52-57	809*/50-52-57	816*/50-52-57		
34	835	794B/48-52-57	825*/49-52-57	832*/50-52-57		
31	855	805B/48-51-58	842*/49-51-58	849*/49-51-58		
28	862	814B/47-51-58	850*/48-51-58	857*/49-51-58		
25	862	822B/47-51-58	852*/48-51-58	859*/49-51-58		
22	862	830B/47-51-58	853*/48-51-58	860*/49-51-58		
19	862	832*/47-51-58	854*/48-51-58	861*/49-51-58		
16	862	834*/47-51-58	855*/49-51-58	862F/49-51-58		
13	862	835*/47-51-58	857*/49-51-58	862F/49-51-58		
10	862	836*/47-51-58	858*/49-51-58	862F/49-51-58		
5	862	838*/48-51-58	860*/49-51-58	862F/49-51-58		
0	862	840*/48-51-58	862*/49-51-58	862F/49-51-58		
-5	862	841*/48-51-58	862F/49-51-58	862F/49-51-58		
-10	862	843*/48-51-58	862F/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.06 PERCENT FOR TODA AND 0.06 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 15/A2 200 3401 0 20 417 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 210 FT

RUNWAY 33

ZSOF

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	XINQIAO JICHANG HF/NORTH CHINA
737-800		CFM56-7B26	DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10 0 10			
61A	666	709F/40-41-45 689**48-50-53	750F/41-41-45 701**54-56-60	764F/41-41-45 701**54-56-60	
58A	683	723F/42-43-47 704**49-51-54	765F/43-43-47 718**56-58-61	779F/43-43-47 718**56-58-61	
55A	699	737F/43-44-48 719**50-52-55	779F/44-44-48 735**57-60-63	794F/44-44-48 735**57-60-63	
52	717	751F/45-46-50 735**50-53-56	795F/45-46-50 754**58-61-65	810F/46-46-50 754**59-62-65	
49	736	767F/46-48-52 751**51-53-57	811F/47-48-52 771**59-62-66	826F/47-48-52 774**61-64-67	
46	756	781F/47-50-54 764**50-52-56	828F/48-50-54 790**60-63-66	844F/48-50-54 790**60-63-67	
43	776	775B/49-51-56	844F/50-51-56 790**54-56-60	860F/50-51-56 790**54-56-60	
40	796	781B/49-51-56	859F/50-52-57	862F/51-52-57	
37	816	786B/48-52-57	862F/50-52-57	862F/50-52-57	
34	835	793B/48-52-57	862F/49-52-57	862F/49-52-57	
31	855	804B/48-51-58	862F/49-51-58	862F/49-51-58	
28	862	813B/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	821B/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	829B/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	837B/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	845B/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	854B/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.06 PERCENT FOR TODA AND -0.06 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 33 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 210 FT

RUNWAY 33/A7 ZSOF

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	XINQIAO JICHANG HF/NORTH CHINA		
737-800 CFM56-7B26				DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE						
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
C 100KG	-10	0	10			
61A 666	689F/40-41-45	730F/41-41-45	744F/41-41-45			
	678**44-46-49	697**53-55-58	701**54-56-60			
58A 683	702F/42-43-47	744F/43-43-47	758F/43-43-47			
	693**45-47-50	713**53-55-59	718**56-58-61			
55A 699	715F/43-44-48	758F/44-44-48	772F/44-44-48			
	708**46-47-51	729**54-56-60	734**57-59-63			
52 717	729F/45-46-50	773F/45-46-50	788F/46-46-50			
	724**47-48-52	746**55-57-61	751**58-60-64			
49 736	744F/46-48-52	789F/47-48-52	804F/47-48-52			
	740**47-49-53	763**55-58-62	769**58-61-64			
46 756	759F/47-50-54	805F/48-50-54	821F/48-50-54			
	758**48-50-54	780**56-59-62	788**59-61-65			
43 776	774F/49-51-55	822F/50-51-56	838F/50-51-56			
		790**54-56-60	790**54-56-60			
40 796	781B/49-51-56	838F/50-52-57	855F/51-52-57			
37 816	786B/48-52-57	853F/50-52-57	862F/50-52-57			
34 835	793B/48-52-57	862F/49-52-57	862F/49-52-57			
31 855	804B/48-51-58	862F/49-51-58	862F/49-51-58			
28 862	813B/47-51-58	862F/48-51-58	862F/49-51-58			
25 862	821B/47-51-58	862F/48-51-58	862F/49-51-58			
22 862	829B/47-51-58	862F/48-51-58	862F/49-51-58			
19 862	837B/47-51-58	862F/48-51-58	862F/49-51-58			
16 862	845B/47-51-58	862F/48-51-58	862F/49-51-58			
13 862	853F/47-51-58	862F/48-51-58	862F/49-51-58			
10 862	857F/47-51-58	862F/48-51-58	862F/49-51-58			
5 862	862F/47-51-58	862F/48-51-58	862F/49-51-58			
0 -5	862F/47-51-58	862F/49-51-58	862F/49-51-58			
-10 862	862F/47-51-58	862F/49-51-58	862F/49-51-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.06 PERCENT FOR TODA AND -0.06 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 33/A7 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 33 FT

RUNWAY 17 ZSQD

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			LIUTING JICHANG QD/NORTH CHINA DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C	100KG	-10 0 10
737-800	CFM56-7B26				
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C	100KG	-10 0 10
61A	670	601*/32-33-39 619*/35-36-40 625*/36-36-41 618**42-46-50 637**46-48-53 644**47-49-53			
58A	686	615*/33-35-40 634*/37-37-42 640*/38-38-43 632**44-47-52 652**47-50-54 659**49-51-55			
55A	703	630*/35-36-42 649*/38-39-44 655*/39-39-44 646**45-49-54 668**49-52-56 675**50-52-57			
52	721	645*/36-38-44 665*/39-40-45 671*/41-41-46 662**47-51-56 684**50-53-58 691**51-54-59			
49	740	662*/38-40-45 682*/41-42-47 689*/42-43-48 679**48-52-57 701**52-55-60 709**53-56-61			
46	760	679*/39-41-47 700*/42-43-49 707*/43-44-50 697**50-54-59 719**53-57-62 727**54-58-62			
43	780	696*/40-43-49 717*/44-45-51 724*/45-46-51 714**51-56-61 737**55-58-64 745**56-59-64			
40	800	713*/42-44-51 735*/45-47-52 742*/46-47-53 731**52-57-63 755**56-60-65 763**57-61-66			
37	821	730*/43-46-52 752*/46-48-54 760*/47-49-55 748**53-59-65 772**57-62-67 781**58-63-68			
34	840	747*/44-47-54 769*/47-50-56 777*/48-50-56 762**52-58-64 790**59-63-69 790**54-57-63			
31	860	764*/45-49-56 787*/48-51-57 794*/49-51-58 777**51-56-63 790**49-52-59 794*/49-51-58			
28	862	771*/45-49-56 794*/48-51-58 801*/49-51-58 783**51-56-63 790**52-57-64 790**54-57-64			
25	862	772*/45-49-56 795*/48-51-58 802*/49-51-58 785**52-57-64 790**53-59-65 790**54-57-65			
22	862	773*/46-49-56 796*/48-51-58 803*/49-51-58 787**52-58-64 790**53-59-65 790**54-57-65			
19	862	774*/46-49-57 797*/48-51-58 804*/49-51-58 789**53-59-65 790**52-58-64 790**53-59-65			
16	862	775*/46-50-57 798*/48-51-58 805*/49-51-58 790**53-59-65 790**52-58-64 790**53-59-65			
13	862	776*/46-50-57 799*/48-51-58 806*/49-51-58 790**53-58-65 790**52-58-64 790**53-58-65			
10	862	776*/46-50-57 800*/48-51-58 807*/49-51-58 790**52-58-64 790**53-58-65 790**54-57-64			
5	862	778*/46-50-57 801*/49-51-58 808*/49-51-58 790**52-57-63 790**53-58-64 790**54-57-64			
0	862	779*/46-50-57 802*/49-51-58 810*/49-51-58 790**51-56-63 790**52-57-63 790**53-58-63			
-5	862	780*/46-50-57 803*/49-51-58 811*/49-51-58 790**51-56-62 790**52-57-62 790**53-58-62			
-10	862	781*/47-50-57 804*/49-51-58 812*/49-51-58 790**51-55-62 790**52-56-62 790**53-58-62			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1600 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
17	623	6384	0	358	7452	0	322	5386	0
	49	957	0	148	3051	0	135	2581	0
	1175	18582	0	344	7806	0	23	360	0

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ELEVATION 33 FT

RUNWAY 35 ZSQD

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	LIUTING JICHANG QD/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C 100KG	-10	0	10
61A 670	671*/41-42-45 678**47-49-53	688*/42-42-45 702**54-56-59	693*/42-42-45 705**55-57-60
58A 686	686*/42-43-47 692**48-51-55	704*/43-43-47 718**54-56-60	709*/43-43-47 722**56-59-62
55A 703	702*/43-45-49 707**49-52-56	720*/44-45-49 734**55-57-61	725*/45-45-49 739**58-60-64
52 721	719*/45-46-50 723**50-53-57	738*/46-46-50 751**56-58-62	743*/46-46-50 759**59-62-66
49 740	736*/46-48-52 740**49-51-55	756*/47-48-52 769**57-59-63	762*/47-48-52 777**60-63-67
46 760	754*/47-49-54 758**50-53-57	776*/49-50-54 787**57-60-64	782*/49-50-54 790**58-61-65
43 780	773*/48-51-55 774**49-52-57	795*/50-52-56 790**53-55-59	801*/50-52-56 790**53-55-59
40 800	784B/49-52-57	813*/50-52-57	819*/51-52-57
37 821	789B/49-52-57	829*/50-52-57	836*/50-52-57
34 840	799B/48-52-58	843*/49-52-58	851*/49-52-58
31 860	810B/47-51-58	858*/48-51-58	862F/49-51-58
28 862	819B/47-51-58	862F/48-51-58	862F/49-51-58
25 862	827B/47-51-58	862F/48-51-58	862F/49-51-58
22 862	835B/47-51-58	862F/48-51-58	862F/49-51-58
19 862	843B/47-51-58	862F/48-51-58	862F/49-51-58
16 862	845*/47-51-58	862F/48-51-58	862F/49-51-58
13 862	847*/47-51-58	862F/48-51-58	862F/49-51-58
10 862	849*/47-51-58	862F/48-51-58	862F/49-51-58
5 862	852*/47-51-58	862F/48-51-58	862F/49-51-58
0 862	855*/47-51-58	862F/48-51-58	862F/49-51-58
-5 862	858*/47-51-58	862F/48-51-58	862F/49-51-58
-10 862	860*/47-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.06 PERCENT FOR TODA AND -0.06 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 35 66 1091 0 144 2805 0 75 1285 0
 157 3255 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 20 FT

RUNWAY 03 ZSWZ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				LONGWANJICHANG WZ/EASTERN CHINA DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
737-800	CFM56-7B26			
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE			
OAT	CLIMB			
61A	670	657*/39-40-44 671*/42-42-45 675*/42-42-45 674**46-48-51 699**53-55-59 705**55-57-60		
58A	687	673*/41-42-46 687*/43-43-47 692*/43-43-47 688**47-49-52 714**54-56-60 722**56-59-62		
55A	703	689*/42-43-47 703*/44-45-49 705*/45-45-49 703**47-49-53 730**55-57-60 738**57-60-63		
52	721	706*/43-45-49 721*/46-46-50 722*/46-46-50 719**48-50-54 747**55-58-61 756**58-60-64		
49	740	725*/45-46-51 740*/47-48-52 744*/47-48-52 736**49-51-55 765**56-58-62 773**59-61-65		
46	761	744*/46-48-53 760*/49-50-54 765*/49-50-54 753**49-52-56 782**57-59-63 790**58-61-65		
43	780	763*/47-50-55 779*/50-51-56 784*/50-52-56 770**50-53-57 790**54-56-60 790**53-55-59		
40	801	781*/49-51-56 798*/50-52-57 803*/51-52-57 783**49-52-57		
37	821	790B/49-52-57 816*/50-52-57 821*/50-52-57		
34	841	800B/48-52-58 834*/49-52-58 839*/49-52-58		
31	861	811B/47-51-58 853*/48-51-58 858*/49-51-58		
28	862	820B/47-51-58 860*/48-51-58 862F/49-51-58		
25	862	828B/47-51-58 861*/48-51-58 862F/49-51-58		
22	862	836B/47-51-58 862F/48-51-58 862F/49-51-58		
19	862	844B/47-51-58 862F/48-51-58 862F/49-51-58		
16	862	846*/47-51-58 862F/48-51-58 862F/49-51-58		
13	862	847*/47-51-58 862F/48-51-58 862F/49-51-58		
10	862	847*/47-51-58 862F/48-51-58 862F/49-51-58		
5	862	849*/47-51-58 862F/48-51-58 862F/49-51-58		
0	862	849*/47-51-58 862F/48-51-58 862F/49-51-58		
-5	862	850*/47-51-58 862F/49-51-58 862F/49-51-58		
-10	862	851*/47-51-58 862F/49-51-58 862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1010 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 594 11780 0 640 12123 0 43 1000 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 20 FT

RUNWAY 03/A4 ZSWZ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF LONGWANJICHANG
 737-800 CFM56-7B26 WZ/EASTERN CHINA
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	670	600F/32-33-39	639F/38-38-42	653F/40-40-44
58A	687	611F/33-34-40	651F/39-39-44	665F/41-41-45
55A	703	622F/34-35-41	663F/40-40-45	677F/42-42-46
52	721	633F/34-36-42	676F/41-41-46	691F/43-43-48
49	740	645F/35-37-44	689F/42-43-48	704F/44-44-49
46	761	657F/36-39-45	704F/43-44-49	719F/45-46-51
43	780	669F/37-40-47	718F/44-45-51	733F/45-47-52
40	801	682F/38-41-48	733F/44-46-52	748F/46-48-54
37	821	695F/39-42-49	746F/45-47-54	763F/47-49-55
34	841	707F/40-43-51	758F/46-48-55	776F/48-50-56
31	861	718F/40-44-52	770F/47-49-56	788F/49-51-58
28	862	724F/41-44-52	777F/47-50-57	795F/49-51-58
25	862	728F/41-45-53	781F/47-50-57	799F/49-51-58
22	862	731F/41-45-53	785F/48-51-57	803F/49-51-58
19	862	735F/42-45-53	789F/48-51-58	807F/49-51-58
16	862	739F/42-46-54	793F/48-51-58	811F/49-51-58
13	862	742F/42-46-54	797F/48-51-58	815F/49-51-58
10	862	746F/43-46-54	801F/48-51-58	820F/49-51-58
5	862	752F/43-47-55	807F/48-51-58	827F/49-51-58
0	862	758F/44-48-55	814F/48-51-58	834F/49-51-58
-5	862	764F/45-48-56	821F/49-51-58	841F/49-51-58
-10	862	771F/45-49-56	828F/49-51-58	848F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 940 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/A4 594 11780 0 640 12123 0 43 1000 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 20 FT

RUNWAY 21 ZSWZ

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	LONGWANJICHANG WZ/EASTERN CHINA DATED 10-JUN-2019
OAT	CLIMB	CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10	
61A	670	692F/41-42-45 682**45-46-50	733F/42-42-45 701**53-55-58	748F/42-42-45 705**55-57-60	
58A	687	705F/42-43-47 697**46-47-51	747F/43-43-47 717**54-56-59	762F/43-43-47 722**56-59-62	
55A	703	718F/44-45-49 712**46-48-51	762F/44-45-49 733**54-56-60	776F/45-45-49 738**57-60-63	
52	721	733F/45-46-50 728**47-49-52	777F/46-46-50 750**55-57-61	792F/46-46-50 756**58-60-64	
49	740	748F/46-48-52 744**48-50-54	793F/47-48-52 767**56-58-62	808F/47-48-52 773**59-61-65	
46	761	763F/48-50-54 762**48-50-55	810F/49-50-54 785**56-59-63	825F/49-50-54 790**58-61-65	
43	780	778F/49-51-56	826F/50-52-56 790**53-55-59	842F/50-52-56 790**53-55-59	
40	801	784B/49-52-57	842F/50-52-57	859F/51-52-57	
37	821	790B/49-52-57	857F/50-52-57	862F/50-52-57	
34	841	800B/48-52-58	862F/49-52-58	862F/49-52-58	
31	861	811B/47-51-58	862F/48-51-58	862F/49-51-58	
28	862	820B/47-51-58	862F/48-51-58	862F/49-51-58	
25	862	828B/47-51-58	862F/48-51-58	862F/49-51-58	
22	862	836B/47-51-58	862F/48-51-58	862F/49-51-58	
19	862	844B/47-51-58	862F/48-51-58	862F/49-51-58	
16	862	852B/47-51-58	862F/48-51-58	862F/49-51-58	
13	862	857F/47-51-58	862F/48-51-58	862F/49-51-58	
10	862	861F/47-51-58	862F/48-51-58	862F/49-51-58	
5	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
0	862	862F/47-51-58	862F/48-51-58	862F/49-51-58	
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	
-10	862	862F/47-51-58	862F/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

Intentionally blank

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 09

ZSXZ

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	GUANYINJICHANG XZ/NORTH CHINA
737-800		CFM56-7B26		DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	668	681*/41-42-45 687**48-50-53	700*/42-42-45 703**55-57-60	705*/42-42-45 703**55-57-60
58A	685	697*/42-43-47 702**50-52-55	716*/43-43-47 720**56-58-62	722*/43-43-47 720**56-58-62
55A	701	712*/43-45-48 717**50-53-56	732*/44-45-48 737**58-60-63	738*/45-45-48 737**58-60-63
52	719	729*/45-46-50 733**51-53-57	749*/46-46-50 755**59-61-65	755*/46-46-50 757**59-62-65
49	738	746*/46-48-52 750**51-54-58	767*/47-48-52 773**59-62-66	774*/47-48-52 777**61-64-67
46	758	765*/48-50-54 765**50-52-56	786*/48-50-54 790**59-62-65	793*/49-50-54 790**59-62-65
43	778	777B/49-51-56	804*/50-51-56 790**53-56-60	811*/50-51-56 790**54-56-60
40	798	783B/49-52-56	822*/50-52-57	829*/51-52-57
37	819	788B/49-52-57	838*/50-52-57	845*/50-52-57
34	838	797B/48-52-57	852*/49-52-57	860*/49-52-57
31	858	807B/48-51-58	862F/49-51-58	862F/49-51-58
28	862	817B/47-51-58	862F/48-51-58	862F/49-51-58
25	862	825B/47-51-58	862F/48-51-58	862F/49-51-58
22	862	833B/47-51-58	862F/48-51-58	862F/49-51-58
19	862	841B/47-51-58	862F/48-51-58	862F/49-51-58
16	862	849B/47-51-58	862F/48-51-58	862F/49-51-58
13	862	857*/47-51-58	862F/48-51-58	862F/49-51-58
10	862	859*/47-51-58	862F/48-51-58	862F/49-51-58
5	862	862*/47-51-58	862F/48-51-58	862F/49-51-58
0	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-5	862	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10	862	862F/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 09 49 1020 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 115 FT

RUNWAY 27 ZSXZ

*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	GUANYINJICHANG XZ/NORTH CHINA
737-800	CFM56-7B26		DATED 10-JUN-2019
A	INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE		
OAT CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10 0 10		
61A 668	681*/41-42-45 686**47-48-52	700*/42-42-45 703**55-57-60	705*/42-42-45 703**55-57-60
58A 685	697*/42-43-47 701**50-52-55	716*/43-43-47 720**56-58-62	722*/43-43-47 720**56-58-62
55A 701	712*/43-45-48 716**50-53-56	732*/44-45-48 737**58-60-63	738*/45-45-48 737**58-60-63
52 719	729*/45-46-50 732**51-54-57	749*/46-46-50 755**59-61-65	755*/46-46-50 757**59-62-65
49 738	746*/46-48-52 749**51-54-58	767*/47-48-52 773**59-62-66	774*/47-48-52 777**61-64-67
46 758	764*/48-50-54 765**50-52-56	786*/48-50-54 790**59-62-65	793*/49-50-54 790**59-62-65
43 778	777B/49-51-56	804*/50-51-56 790**53-56-60	811*/50-51-56 790**54-56-60
40 798	783B/49-52-56 788B/49-52-57	822*/50-52-57 837*/50-52-57	829*/51-52-57 845*/50-52-57
37 819	797B/48-52-57	851*/49-52-57	859*/49-52-57
34 838	807B/48-51-58	862F/49-51-58	862F/49-51-58
31 858	817B/47-51-58	862F/48-51-58	862F/49-51-58
28 862	825B/47-51-58	862F/48-51-58	862F/49-51-58
25 862	833B/47-51-58	862F/48-51-58	862F/49-51-58
22 862	841B/47-51-58	862F/48-51-58	862F/49-51-58
19 862	849B/47-51-58	862F/48-51-58	862F/49-51-58
16 862	855*/47-51-58	862F/48-51-58	862F/49-51-58
13 862	857*/47-51-58	862F/48-51-58	862F/49-51-58
10 862	860*/47-51-58	862F/48-51-58	862F/49-51-58
5 862	862F/47-51-58	862F/49-51-58	862F/49-51-58
0 -5	862F/47-51-58	862F/49-51-58	862F/49-51-58
-10 862	862F/48-51-58	862F/49-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.00 PERCENT FOR TODA AND 0.00 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 27 46 930 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02L ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019	
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT C	100KG	-10	0	10	
61A	642	647*/38-39-42 652**42-43-46	659*/39-39-42 671**50-51-54	663*/39-39-42 675**52-54-57	
58A	658	663*/40-41-44 667**42-44-47	675*/40-41-44 686**51-52-55	679*/41-41-44 691**53-55-58	
55A	674	679*/41-42-46 681**43-44-48	683*/42-42-46 701**51-53-56	683*/42-42-46 707**54-56-59	
52A	691	684*/42-43-47 693**44-46-50	686*/43-43-47 716**52-54-57	688*/43-43-47 722**55-57-60	
49	709	703*/43-45-49 709**45-47-51	705*/44-45-49 733**53-55-58	707*/45-45-49 740**56-58-61	
46	728	724*/45-47-51 726**46-47-52	724*/46-47-51 751**54-56-59	726*/46-47-51 758**56-59-62	
43	747	743F/46-48-53	745*/47-49-53	746*/48-49-53	
40	766	758F/47-50-54	766*/49-50-55 785**55-57-61	766*/49-50-55 790**57-59-63	
37	786	768B/48-50-55	786*/50-52-57 790**51-54-58	786*/51-52-57 790**52-54-58	
34	806	774B/48-51-56	805*/50-52-57	806*/50-52-57	
31	822	779B/47-51-56	826*/50-52-57	827*/50-52-57	
28	838	784B/47-51-57	850*/49-52-58	850*/49-52-58	
25	842	788B/48-51-57	856*/49-52-58	861*/49-52-58	
22	843	793B/48-52-58	857*/49-52-58	862*/49-52-58	
19	843	801B/48-52-58	857*/49-52-58	862F/49-52-58	
16	844	809B/48-52-58	858*/49-52-58	862F/49-52-58	
13	844	817B/48-52-58	859*/49-52-58	862F/49-52-58	
10	845	826B/48-52-58	859*/49-52-58	862F/49-52-58	
5	846	836F/48-52-58	860*/49-52-58	862F/50-52-58	
0	847	843F/48-52-58	861*/49-52-58	862F/50-52-58	
-5	847	846*/48-52-58	862F/49-52-58	862F/50-52-58	
-10	848	847*/48-52-58	862F/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 990 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02L 522 12503 0 535 12886 0 541 12862 0
 594 14830 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02L/B2 ZUCK

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26			WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10	0	10
61A	642	640F/38-39-42	658*/39-39-42	662*/39-39-42	
			661**46-47-50	668**49-50-53	
58A	658	652F/39-40-44	674*/40-41-44	678*/41-41-44	
			676**47-48-51	683**49-50-54	
55A	674	664F/40-41-45	683*/42-42-46	683*/42-42-46	
			691**47-49-52	698**50-51-55	
52A	691	677F/41-42-46	686*/43-43-47	688*/43-43-47	
			704**48-50-53	713**51-52-56	
49	709	691F/42-43-48	705*/44-45-49	707*/45-45-49	
			721**49-50-54	729**52-53-57	
46	728	705F/43-45-49	724*/46-47-51	726*/46-47-51	
			738**50-51-55	747**52-54-58	
43	747	719F/44-46-51	745*/47-49-53	746*/48-49-53	
			756**50-52-56	764**53-55-59	
40	766	734F/45-47-52	766*/49-50-55	766*/49-50-55	
			774**51-53-57	782**54-56-60	
37	786	747F/45-48-53	786*/50-52-57	786*/51-52-57	
			790**51-54-58	790**52-54-58	
34	806	760F/46-49-55	805*/50-52-57	806*/50-52-57	
31	822	772F/47-50-56	822F/50-52-57	827*/50-52-57	
28	838	782F/47-51-57	834F/49-52-58	850*/49-52-58	
25	842	787F/48-51-57	839F/49-52-58	857F/49-52-58	
22	843	791F/48-52-58	843F/49-52-58	860*/49-52-58	
19	843	795F/48-52-58	847F/49-52-58	861*/49-52-58	
16	844	798F/48-52-58	851F/49-52-58	862F/49-52-58	
13	844	802F/48-52-58	855F/49-52-58	862F/49-52-58	
10	845	806F/48-52-58	858*/49-52-58	862F/49-52-58	
5	846	812F/48-52-58	859*/49-52-58	862F/50-52-58	
0	847	819F/48-52-58	860*/49-52-58	862F/50-52-58	
-5	847	826F/48-52-58	861*/49-52-58	862F/50-52-58	
-10	848	832F/48-52-58	861*/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 980 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.01 PERCENT FOR TODA AND -0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02L/B2 522 12503 0 535 12886 0 541 12862 0
 594 14830 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02R ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019	
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT C	100KG	-10	0	10	
61A	642	645*/38-39-42	658*/39-39-42	662*/39-39-42	
		671**49-51-55	675**52-54-57	675**52-54-57	
58A	658	662*/40-41-44	674*/40-41-44	678*/41-41-44	
		686**50-52-55	692**54-56-59	692**54-56-59	
55A	674	678*/41-42-46	683*/42-42-46	683*/42-42-46	
		702**51-53-56	709**55-57-61	709**55-57-61	
52A	691	684*/42-43-47	685*/43-43-47	687*/43-43-47	
		715**51-54-57	726**57-59-62	726**57-59-62	
49	709	703*/43-45-49	704*/44-45-49	706*/45-45-49	
		727**50-53-57	746**58-61-64	746**58-61-64	
46	728	724*/45-47-51	724*/46-47-51	725*/46-47-51	
		740**49-52-56	766**60-63-66	766**60-63-66	
43	747	745*/46-49-53	745*/47-49-53	746*/48-49-53	
		752**48-51-55	781**59-62-66	786**62-65-68	
40	766	763B/48-50-55	766*/49-50-55	766*/49-50-55	
			790**56-59-63	790**57-59-63	
37	786	768B/48-50-55	786*/50-52-57	786*/51-52-57	
			790**51-54-58	790**52-54-58	
34	806	774B/47-51-56	805*/50-52-57	806*/50-52-57	
31	822	779B/47-51-56	826*/50-52-57	827*/50-52-57	
28	838	784B/47-51-57	850*/49-52-58	850*/49-52-58	
25	842	788B/48-51-57	854*/49-52-58	860*/49-52-58	
22	843	793B/48-52-58	855*/49-52-58	860*/49-52-58	
19	843	801B/48-52-58	856*/49-52-58	861*/49-52-58	
16	844	809B/48-52-58	857*/49-52-58	862F/49-52-58	
13	844	817B/48-52-58	857*/49-52-58	862F/49-52-58	
10	845	825B/48-52-58	858*/49-52-58	862F/49-52-58	
5	846	839B/48-52-58	859*/49-52-58	862F/49-52-58	
0	847	844*/48-52-58	860*/49-52-58	862F/50-52-58	
-5	847	845*/48-52-58	861*/49-52-58	862F/50-52-58	
-10	848	845*/48-52-58	861*/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 990 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R 541 12426 0 548 12402 0 600 14370 0

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ELEVATION 1365 FT

RUNWAY 02R/B4 ZUCK

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26			WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10	0	10
61A	642	631F/37-38-41	654*/39-39-42	658*/39-39-42	
			657**44-45-48	664**47-48-51	
58A	658	643F/38-39-43	670*/40-41-44	675*/41-41-44	
			671**45-46-49	678**48-49-52	
55A	674	655F/39-40-44	683*/42-42-46	683*/42-42-46	
			686**46-47-50	693**48-49-53	
52A	691	667F/40-41-45	685*/43-43-47	687*/43-43-47	
			699**47-48-51	707**49-50-54	
49	709	681F/41-42-47	704*/44-45-49	706*/45-45-49	
			715**47-49-52	724**50-51-55	
46	728	695F/42-43-48	724*/46-47-51	725*/46-47-51	
			733**48-49-53	741**51-52-56	
43	747	709F/43-45-50	745*/47-49-53	746*/48-49-53	
			750**49-50-54	759**51-53-57	
40	766	723F/44-46-51	766*/49-50-55	766*/49-50-55	
			767**49-51-55	776**52-54-58	
37	786	736F/44-47-52	784F/50-52-56	786*/51-52-57	
				790**52-54-58	
34	806	749F/45-48-54	799F/50-52-57	806*/50-52-57	
31	822	760F/46-49-55	811F/50-52-57	827*/50-52-57	
28	838	771F/46-50-56	822F/49-52-58	840F/49-52-58	
25	842	776F/47-50-56	828F/49-52-58	846F/49-52-58	
22	843	779F/47-51-57	832F/49-52-58	850F/49-52-58	
19	843	783F/47-51-57	836F/49-52-58	854F/49-52-58	
16	844	787F/48-51-57	840F/49-52-58	857*/49-52-58	
13	844	790F/48-52-58	844F/49-52-58	858*/49-52-58	
10	845	794F/48-52-58	848F/49-52-58	858*/49-52-58	
5	846	800F/48-52-58	854*/49-52-58	859*/49-52-58	
0	847	807F/48-52-58	855*/49-52-58	860*/50-52-58	
-5	847	813F/48-52-58	856*/49-52-58	861*/50-52-58	
-10	848	820F/48-52-58	856*/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 950 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2911 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R/B4 541 12426 0 548 12402 0 600 14370 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 02R/E1 ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10
61A	642	644*/38-39-42	657*/39-39-42	661*/39-39-42	
		662**46-47-50	675**52-54-57	675**52-54-57	
58A	658	660*/40-41-44	673*/40-41-44	677*/41-41-44	
		677**46-48-51	692**54-56-59	692**54-56-59	
55A	674	677*/41-42-46	683*/42-42-46	683*/42-42-46	
		692**47-49-52	709**55-57-61	709**55-57-61	
52A	691	684*/42-43-47	685*/43-43-47	687*/43-43-47	
		704**48-50-54	725**56-58-62	726**57-59-62	
49	709	703*/43-45-49	704*/44-45-49	706*/45-45-49	
		721**49-51-55	743**57-59-63	746**58-61-64	
46	728	724*/45-47-51	724*/46-47-51	725*/46-47-51	
		739**49-52-56	760**57-60-63	766**60-63-66	
43	747	745*/46-49-53	745*/47-49-53	746*/48-49-53	
		752**48-51-55	778**58-61-64	784**61-63-67	
40	766	763B/48-50-55	766*/49-50-55	766*/49-50-55	
			790**56-59-63	790**57-59-63	
37	786	768B/48-50-55	786*/50-52-57	786*/51-52-57	
			790**51-54-58	790**52-54-58	
34	806	774B/47-51-56	805*/50-52-57	806*/50-52-57	
31	822	779B/47-51-56	826*/50-52-57	827*/50-52-57	
28	838	784B/47-51-57	849*/49-52-58	850*/49-52-58	
25	842	788B/48-51-57	853*/49-52-58	858*/49-52-58	
22	843	793B/48-52-58	854*/49-52-58	859*/49-52-58	
19	843	801B/48-52-58	854*/49-52-58	860*/49-52-58	
16	844	809B/48-52-58	855*/49-52-58	860*/49-52-58	
13	844	817B/48-52-58	856*/49-52-58	861*/49-52-58	
10	845	825B/48-52-58	856*/49-52-58	862F/49-52-58	
5	846	839B/48-52-58	858*/49-52-58	862F/49-52-58	
0	847	842*/48-52-58	859*/49-52-58	862F/50-52-58	
-5	847	843*/48-52-58	859*/49-52-58	862F/50-52-58	
-10	848	844*/48-52-58	860*/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 990 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R/E1 541 12426 0 548 12402 0 600 14370 0

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ELEVATION 1365 FT

RUNWAY 02R/E2 ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019		
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10
61A	642	643*/38-39-42	656*/39-39-42	660*/39-39-42	
		655**43-44-47	673**51-53-56	675**52-54-57	
58A	658	659*/40-41-44	672*/40-41-44	676*/41-41-44	
		669**44-45-48	688**52-53-57	692**54-56-59	
55A	674	676*/41-42-46	683*/42-42-46	683*/42-42-46	
		684**44-46-49	704**52-54-58	709**55-57-60	
52A	691	684*/42-43-47	685*/43-43-47	687*/43-43-47	
		696**45-47-51	718**53-55-59	725**56-58-61	
49	709	703*/43-45-49	704*/44-45-49	706*/45-45-49	
		713**46-48-52	736**54-56-60	742**57-59-62	
46	728	724*/45-47-51	724*/46-47-51	725*/46-47-51	
		730**47-49-53	754**55-57-60	760**57-60-63	
43	747	745*/46-49-53	745*/47-49-53	746*/48-49-53	
		748**47-49-54	771**55-58-61	778**58-60-64	
40	766	763B/48-50-55	766*/49-50-55	766*/49-50-55	
			788**56-58-62	790**57-59-63	
37	786	768B/48-50-55	786*/50-52-57	786*/51-52-57	
			790**51-54-58	790**52-54-58	
34	806	774B/47-51-56	805*/50-52-57	806*/50-52-57	
31	822	779B/47-51-56	826*/50-52-57	827*/50-52-57	
28	838	784B/47-51-57	848*/49-52-58	850*/49-52-58	
25	842	788B/48-51-57	852*/49-52-58	857*/49-52-58	
22	843	793B/48-52-58	853*/49-52-58	858*/49-52-58	
19	843	801B/48-52-58	853*/49-52-58	859*/49-52-58	
16	844	809B/48-52-58	854*/49-52-58	859*/49-52-58	
13	844	817B/48-52-58	855*/49-52-58	860*/49-52-58	
10	845	825B/48-52-58	855*/49-52-58	861*/49-52-58	
5	846	839B/48-52-58	856*/49-52-58	862F/49-52-58	
0	847	841*/48-52-58	857*/49-52-58	862F/50-52-58	
-5	847	842*/48-52-58	858*/49-52-58	862F/50-52-58	
-10	848	842*/48-52-58	859*/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 990 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3250 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.04 PERCENT FOR TODA AND -0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R/E2 541 12426 0 548 12402 0 600 14370 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 03

ZUCK

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	JIANGBEIJICHANG CQ/SOUTHWEST
737-800		CFM56-7B26	DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10 0 10			
61A	642	721F/38-39-42 675**51-54-57	761F/39-39-42 675**52-54-57	773F/39-39-42 675**52-54-57	
58A	658	735F/39-41-44 692**53-56-59	776F/40-41-44 692**53-56-59	789F/40-41-44 692**54-56-59	
55A	674	749F/41-42-46 704**52-55-58	791F/42-42-46 709**55-57-61	805F/42-42-46 709**55-57-61	
52A	691	763F/42-44-47 716**51-54-57	806F/43-44-47 726**56-59-62	821F/43-44-47 726**57-59-62	
49	709	777F/44-45-49 728**50-53-56	821F/44-45-49 746**58-61-64	837F/45-45-49 746**58-61-64	
46	728	776B/45-47-51 740**49-52-55	836F/46-47-51 766**60-63-66	852F/46-47-51 766**60-63-66	
43	747	767B/46-49-53 752**48-51-55	851F/47-49-53 780**58-62-65	862F/48-49-53 786**61-65-68	
40	766	762B/47-50-54	862F/49-50-55 790**56-59-63	862F/49-50-55 790**56-59-63	
37	786	768B/47-50-55	862F/50-52-57 790**51-54-58	862F/50-52-57 790**51-54-58	
34	806	773B/47-50-56	862F/50-52-57	862F/50-52-57	
31	822	778B/47-51-56	862F/49-52-57	862F/50-52-57	
28	838	783B/47-51-57	862F/49-52-58	862F/49-52-58	
25	842	787B/47-51-57	862F/49-52-58	862F/49-52-58	
22	843	792B/48-52-58	862F/49-52-58	862F/49-52-58	
19	843	799B/48-52-58	862F/49-52-58	862F/49-52-58	
16	844	807B/48-52-58	862F/49-52-58	862F/49-52-58	
13	844	816B/48-52-58	862F/49-52-58	862F/49-52-58	
10	845	824B/48-52-58	862F/49-52-58	862F/49-52-58	
5	846	838B/48-52-58	862F/49-52-58	862F/49-52-58	
0	847	852B/48-52-58	862F/49-52-58	862F/49-52-58	
-5	847	862F/48-52-58	862F/49-52-58	862F/49-52-58	
-10	848	862F/48-52-58	862F/49-52-58	862F/49-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.21 PERCENT FOR TODA AND -0.21 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 03/H2 ZUCK

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	JIANGBEIJICHANG CQ/SOUTHWEST			
737-800		CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE								
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)								
C	100KG	-10	0	10				
61A	642	707F/38-39-42 674**51-53-56	747F/39-39-42 675**52-54-57	760F/39-39-42 675**52-54-57				
58A	658	721F/39-41-44 689**51-54-57	762F/40-41-44 692**53-56-59	776F/40-41-44 692**54-56-59				
55A	674	735F/41-42-46 704**52-55-58	777F/42-42-46 709**55-57-61	791F/42-42-46 709**55-57-61				
52A	691	749F/42-44-47 716**51-54-57	792F/43-44-47 726**56-59-62	806F/43-44-47 726**57-59-62				
49	709	765F/44-45-49 728**50-53-56	808F/44-45-49 746**58-61-64	823F/45-45-49 746**58-61-64				
46	728	776B/45-47-51 740**49-52-55	824F/46-47-51 766**60-63-66	839F/46-47-51 766**60-63-66				
43	747	767B/46-49-53 752**48-51-55	838F/47-49-53 780**58-62-65	854F/48-49-53 786**61-65-68				
40	766	762B/47-50-54	853F/49-50-55 790**56-59-63	862F/49-50-55 790**56-59-63				
37	786	768B/47-50-55	862F/50-52-57 790**51-54-58	862F/50-52-57 790**51-54-58				
34	806	773B/47-50-56	862F/50-52-57	862F/50-52-57				
31	822	778B/47-51-56	862F/49-52-57	862F/50-52-57				
28	838	783B/47-51-57	862F/49-52-58	862F/49-52-58				
25	842	787B/47-51-57	862F/49-52-58	862F/49-52-58				
22	843	792B/48-52-58	862F/49-52-58	862F/49-52-58				
19	843	799B/48-52-58	862F/49-52-58	862F/49-52-58				
16	844	807B/48-52-58	862F/49-52-58	862F/49-52-58				
13	844	816B/48-52-58	862F/49-52-58	862F/49-52-58				
10	845	824B/48-52-58	862F/49-52-58	862F/49-52-58				
5	846	838B/48-52-58	862F/49-52-58	862F/49-52-58				
0	847	852B/48-52-58	862F/49-52-58	862F/49-52-58				
-5	847	862F/48-52-58	862F/49-52-58	862F/49-52-58				
-10	848	862F/48-52-58	862F/49-52-58	862F/49-52-58				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3650 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.21 PERCENT FOR TODA AND -0.21 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/H2 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 03/Z1 ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10 0 10	
61A	642	688F/38-39-42	728F/39-39-42	742F/39-39-42
		666**47-49-52	675**52-54-57	675**52-54-57
58A	658	702F/39-41-44	742F/40-41-44	757F/40-41-44
		681**48-50-53	692**53-56-59	692**54-56-59
55A	674	716F/41-42-46	757F/42-42-46	771F/42-42-46
		696**48-51-54	709**55-57-61	709**55-57-61
52A	691	729F/42-44-47	771F/43-44-47	786F/43-44-47
		711**49-51-55	726**56-59-62	726**57-59-62
49	709	744F/44-45-49	787F/44-45-49	802F/45-45-49
		727**50-52-56	745**58-61-64	746**58-61-64
46	728	760F/45-47-51	803F/46-47-51	819F/46-47-51
		740**49-52-55	763**58-61-65	766**60-63-66
43	747	767B/46-49-53	820F/47-49-53	835F/48-49-53
		752**48-51-55	780**58-62-65	786**61-65-68
40	766	762B/47-50-54	835F/49-50-55	851F/49-50-55
			790**56-59-63	790**56-59-63
37	786	768B/47-50-55	850F/50-52-57	862F/50-52-57
			790**51-54-58	790**51-54-58
34	806	773B/47-50-56	862F/50-52-57	862F/50-52-57
31	822	778B/47-51-56	862F/49-52-57	862F/50-52-57
28	838	783B/47-51-57	862F/49-52-58	862F/49-52-58
25	842	787B/47-51-57	862F/49-52-58	862F/49-52-58
22	843	792B/48-52-58	862F/49-52-58	862F/49-52-58
19	843	799B/48-52-58	862F/49-52-58	862F/49-52-58
16	844	807B/48-52-58	862F/49-52-58	862F/49-52-58
13	844	816B/48-52-58	862F/49-52-58	862F/49-52-58
10	845	824B/48-52-58	862F/49-52-58	862F/49-52-58
5	846	838B/48-52-58	862F/49-52-58	862F/49-52-58
0	847	852B/48-52-58	862F/49-52-58	862F/49-52-58
-5	847	862F/48-52-58	862F/49-52-58	862F/49-52-58
-10	848	862F/48-52-58	862F/49-52-58	862F/49-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3450 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.21 PERCENT FOR TODA AND -0.21 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 03/Z1 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20L ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019		
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10
61A	642	645*/38-39-42	659*/39-39-42	663*/39-39-42	
		667**50-52-55	675**52-54-57	675**52-54-57	
58A	658	661*/40-41-44	675*/41-41-44	680*/41-41-44	
		682**50-53-56	692**54-56-59	692**54-56-59	
55A	674	677*/41-42-46	692*/42-42-46	696*/42-42-46	
		697**51-54-57	709**55-57-61	709**55-57-61	
52A	691	692*/43-44-47	708*/43-44-47	712*/44-44-47	
		713**52-54-58	726**57-59-62	726**57-59-62	
49	709	710*/44-45-49	726*/45-45-49	731*/45-45-49	
		726**51-53-57	746**58-61-64	746**58-61-64	
46	728	729*/45-47-51	745*/46-47-51	750*/46-47-51	
		739**50-52-56	766**60-63-66	766**60-63-66	
43	747	747*/47-49-53	763*/48-49-53	768*/48-49-53	
		752**49-51-55	781**59-62-66	786**62-65-68	
40	766	763B/48-50-55	782*/49-50-55	788*/49-50-55	
			790**57-59-63	790**57-59-63	
37	786	769B/48-50-55	801*/50-52-57	807*/51-52-57	
			790**52-54-58	790**52-54-58	
34	806	774B/48-51-56	819*/50-52-57	824*/50-52-57	
31	822	779B/48-51-56	834*/50-52-57	840*/50-52-57	
28	838	784B/48-51-57	848*/49-52-58	854*/49-52-58	
25	842	788B/48-51-57	853*/49-52-58	859*/49-52-58	
22	843	794B/48-52-58	854*/49-52-58	860*/49-52-58	
19	843	802B/48-52-58	855*/49-52-58	861*/49-52-58	
16	844	810B/48-52-58	856*/49-52-58	862*/49-52-58	
13	844	818B/48-52-58	857*/49-52-58	862F/49-52-58	
10	845	826B/48-52-58	858*/49-52-58	862F/50-52-58	
5	846	840B/48-52-58	859*/49-52-58	862F/50-52-58	
0	847	842*/48-52-58	861*/49-52-58	862F/50-52-58	
-5	847	843*/48-52-58	862F/49-52-58	862F/50-52-58	
-10	848	844*/48-52-58	862F/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20L 223 4612 0 213 4626 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20L/E7 ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019	
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	WIND	100KG	0	10
C		-10		0	10
61A	642	634F/37-38-42	651*/39-39-42	656*/39-39-42	
			659**45-46-49	665**48-48-52	
58A	658	646F/38-39-43	667*/41-41-44	672*/41-41-44	
			673**46-47-50	680**48-49-53	
55A	674	659F/39-40-44	683*/42-42-46	688*/42-42-46	
			688**46-47-51	695**49-50-54	
52A	691	671F/40-41-46	699*/43-44-47	704*/44-44-47	
			703**47-48-52	710**50-51-54	
49	709	685F/41-43-47	717*/45-45-49	722*/45-45-49	
			719**48-49-53	726**51-52-56	
46	728	699F/42-44-49	735*/46-47-51	741*/46-47-51	
			736**49-50-54	743**51-53-57	
43	747	713F/43-45-50	754*/48-49-53	759*/48-49-53	
			753**49-51-55	761**52-54-58	
40	766	728F/44-46-52	773*/49-50-55	778*/49-50-55	
			770**50-52-56	778**53-55-59	
37	786	741F/45-47-53	788F/50-52-57	797*/51-52-57	
			787**51-53-57	790**52-54-58	
34	806	753F/45-48-54	803F/50-52-57	815*/50-52-57	
31	822	765F/46-49-55	815F/50-52-57	830*/50-52-57	
28	838	775F/47-50-56	827F/49-52-58	844*/49-52-58	
25	842	780F/47-51-57	832F/49-52-58	848*/49-52-58	
22	843	784F/48-51-57	836F/49-52-58	849*/49-52-58	
19	843	788F/48-51-57	840F/49-52-58	850*/49-52-58	
16	844	791F/48-52-58	844F/49-52-58	851*/49-52-58	
13	844	795F/48-52-58	845*/49-52-58	852*/49-52-58	
10	845	799F/48-52-58	846*/49-52-58	853*/50-52-58	
5	846	805F/48-52-58	848*/49-52-58	855*/50-52-58	
0	847	812F/48-52-58	850*/49-52-58	856*/50-52-58	
-5	847	818F/48-52-58	851*/49-52-58	858*/50-52-58	
-10	848	825F/48-52-58	852*/49-52-58	859*/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2955 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20L/E7 223 4612 0 213 4626 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20L/E8 ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019		
737-800	CFM56-7B26				
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE					
OAT	CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10	
61A	642	640*/38-39-42 651**43-44-48	655*/39-39-42 672**51-52-55	659*/39-39-42 675**52-54-57	
58A	658	656*/39-40-44 666**44-45-49	671*/41-41-44 688**52-53-56	676*/41-41-44 692**54-56-59	
55A	674	672*/41-42-46 680**45-46-50	687*/42-42-46 703**52-54-57	692*/42-42-46 709**55-57-60	
52A	691	687*/42-43-47 695**45-47-51	703*/43-44-47 719**53-55-58	708*/44-44-47 724**56-58-61	
49	709	705*/44-45-49 711**46-48-52	721*/45-45-49 736**54-56-59	726*/45-45-49 742**57-59-62	
46	728	723*/45-47-51 728**47-49-53	740*/46-47-51 753**54-57-60	745*/46-47-51 760**57-59-63	
43	747	741*/46-48-52 745**47-50-54	758*/48-49-53 770**55-57-61	764*/48-49-53 777**58-60-64	
40	766	760*/48-50-54 761**48-50-55	777*/49-50-55 787**56-58-62	783*/49-50-55 790**57-59-63	
37	786	769B/48-50-55	796*/50-52-57 790**52-54-58	802*/51-52-57 790**52-54-58	
34	806	774B/48-51-56 779B/48-51-56	814*/50-52-57 829*/50-52-57	819*/50-52-57 835*/50-52-57	
31	822	784B/48-51-57	843*/49-52-58	849*/49-52-58	
28	838	788B/48-51-57	847*/49-52-58	853*/49-52-58	
25	842	794B/48-52-58	848*/49-52-58	854*/49-52-58	
22	843	802B/48-52-58	849*/49-52-58	855*/49-52-58	
19	843	810B/48-52-58	850*/49-52-58	856*/49-52-58	
16	844	818B/48-52-58	851*/49-52-58	857*/49-52-58	
13	844	826B/48-52-58	852*/49-52-58	858*/50-52-58	
10	845	834*/48-52-58	853*/49-52-58	860*/50-52-58	
5	846	836*/48-52-58	855*/49-52-58	861*/50-52-58	
0	847	837*/48-52-58	856*/49-52-58	862F/50-52-58	
-5	847	838*/48-52-58	857*/49-52-58	862F/50-52-58	
-10	848				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3250 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20L/E8 223 4612 0 213 4626 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20L/E9 ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10 0 10	
61A	642	642*/38-39-42 659**46-48-51	657*/39-39-42 675**52-54-57	661*/39-39-42 675**52-54-57
58A	658	658*/40-41-44 673**47-48-52	673*/41-41-44 692**54-56-59	677*/41-41-44 692**54-56-59
55A	674	674*/41-42-46 688**47-49-53	689*/42-42-46 709**55-57-61	694*/42-42-46 709**55-57-61
52A	691	689*/42-44-47 703**48-50-54	705*/43-44-47 725**56-58-61	710*/44-44-47 726**57-59-62
49	709	707*/44-45-49	723*/45-45-49	728*/45-45-49
		719**49-51-55	742**57-59-62	746**58-61-64
46	728	726*/45-47-51 736**49-52-56	742*/46-47-51 760**57-60-63	747*/46-47-51 765**60-62-66
43	747	744*/47-48-53 750**49-51-55	761*/48-49-53 778**58-60-64	766*/48-49-53 783**60-63-67
40	766	763*/48-50-54	779*/49-50-55 790**57-59-63	785*/49-50-55 790**57-59-63
37	786	769B/48-50-55	798*/50-52-57 790**52-54-58	804*/51-52-57 790**52-54-58
34	806	774B/48-51-56	816*/50-52-57	822*/50-52-57
31	822	779B/48-51-56	831*/50-52-57	837*/50-52-57
28	838	784B/48-51-57	845*/49-52-58	851*/49-52-58
25	842	788B/48-51-57	849*/49-52-58	855*/49-52-58
22	843	794B/48-52-58	850*/49-52-58	856*/49-52-58
19	843	802B/48-52-58	851*/49-52-58	857*/49-52-58
16	844	810B/48-52-58	852*/49-52-58	859*/49-52-58
13	844	818B/48-52-58	853*/49-52-58	859*/49-52-58
10	845	826B/48-52-58	854*/49-52-58	860*/50-52-58
5	846	837*/48-52-58	856*/49-52-58	862F/50-52-58
0	847	839*/48-52-58	857*/49-52-58	862F/50-52-58
-5	847	840*/48-52-58	859*/49-52-58	862F/50-52-58
-10	848	841*/48-52-58	860*/49-52-58	862F/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3400 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.04 PERCENT FOR TODA AND 0.04 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20L/E9 223 4612 0 213 4626 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 21 ZUCK

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10 0 10	
61A	642	713F/39-39-42	747F/39-39-42	759F/39-39-42
		675**52-54-57	675**52-54-57	675**53-54-57
58A	658	727F/40-41-44	763F/41-41-44	775F/41-41-44
		692**53-55-59	692**54-56-59	692**54-56-59
55A	674	741F/41-42-46	778F/42-42-46	791F/42-42-46
		705**53-55-58	709**55-57-61	709**56-57-61
52A	691	755F/43-44-47	794F/44-44-47	806F/44-44-47
		717**52-54-57	726**57-59-62	726**57-59-62
49	709	769F/44-45-49	811F/45-45-49	824F/45-45-49
		729**51-53-56	746**59-61-64	746**59-61-64
46	728	779B/46-47-51	827F/46-47-51	842F/47-47-51
		741**50-52-56	766**60-63-66	766**60-63-66
43	747	770B/47-49-53	842F/48-49-53	858F/48-49-53
		753**49-51-55	781**59-62-66	786**62-65-68
40	766	764B/48-50-55	858F/49-50-55	862F/50-50-55
			790**57-59-63	790**57-59-63
37	786	769B/48-50-55	862F/51-52-57	862F/51-52-57
			790**52-54-58	790**52-54-58
34	806	775B/48-51-56	862F/50-52-57	862F/51-52-57
31	822	780B/48-51-57	862F/50-52-57	862F/50-52-57
28	838	785B/48-51-57	862F/49-52-58	862F/50-52-58
25	842	789B/48-52-57	862F/49-52-58	862F/50-52-58
22	843	795B/48-52-58	862F/49-52-58	862F/50-52-58
19	843	803B/48-52-58	862F/49-52-58	862F/50-52-58
16	844	811B/48-52-58	862F/49-52-58	862F/50-52-58
13	844	819B/48-52-58	862F/49-52-58	862F/50-52-58
10	845	828B/48-52-58	862F/49-52-58	862F/50-52-58
5	846	842B/48-52-58	862F/49-52-58	862F/50-52-58
0	847	856B/49-52-58	862F/50-52-58	862F/50-52-58
-5	847	862F/49-52-58	862F/50-52-58	862F/50-52-58
-10	848	862F/49-52-58	862F/50-52-58	862F/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3800 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.21 PERCENT FOR TODA AND 0.21 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 21/H6 ZUCK

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	JIANGBEIJICHANG CQ/SOUTHWEST
737-800		CFM56-7B26	DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10 0 10			
61A	642	700F/39-39-42 671**50-52-55	735F/39-39-42 675**52-54-57	747F/39-39-42 675**53-54-57	
58A	658	714F/40-41-44 686**50-52-56	750F/41-41-44 692**54-56-59	762F/41-41-44 692**54-56-59	
55A	674	728F/41-42-46 702**51-53-56	766F/42-42-46 709**55-57-61	778F/42-42-46 709**56-57-61	
52A	691	742F/43-44-47 717**52-54-57	781F/44-44-47 726**57-59-62	793F/44-44-47 726**57-59-62	
49	709	757F/44-45-49	798F/45-45-49	810F/45-45-49	
		729**51-53-56	746**59-61-64	746**59-61-64	
46	728	771F/46-47-51 741**50-52-56	815F/46-47-51 766**60-63-66	828F/47-47-51 766**60-63-66	
43	747	770B/47-49-53 753**49-51-55	830F/48-49-53 781**59-62-66	846F/48-49-53 786**62-65-68	
40	766	764B/48-50-55	845F/49-50-55 790**57-59-63	861F/50-50-55 790**57-59-63	
37	786	769B/48-50-55	860F/51-52-57 790**52-54-58	862F/51-52-57 790**52-54-58	
34	806	775B/48-51-56	862F/50-52-57	862F/51-52-57	
31	822	780B/48-51-57	862F/50-52-57	862F/50-52-57	
28	838	785B/48-51-57	862F/49-52-58	862F/50-52-58	
25	842	789B/48-52-57	862F/49-52-58	862F/50-52-58	
22	843	795B/48-52-58	862F/49-52-58	862F/50-52-58	
19	843	803B/48-52-58	862F/49-52-58	862F/50-52-58	
16	844	811B/48-52-58	862F/49-52-58	862F/50-52-58	
13	844	819B/48-52-58	862F/49-52-58	862F/50-52-58	
10	845	828B/48-52-58	862F/49-52-58	862F/50-52-58	
5	846	842B/48-52-58	862F/49-52-58	862F/50-52-58	
0	847	856B/49-52-58	862F/50-52-58	862F/50-52-58	
-5	847	862F/49-52-58	862F/50-52-58	862F/50-52-58	
-10	848	862F/49-52-58	862F/50-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 430 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3650 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.21 PERCENT FOR TODA AND 0.21 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 21/H6 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20R ZUCK

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800		CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10	0	10
61A	642	660F/38-39-42	700F/39-39-42	713F/39-39-42	
		652**42-43-46	670**50-51-54	675**52-54-57	
58A	658	673F/40-41-44	713F/41-41-44	727F/41-41-44	
		666**42-44-47	686**51-52-55	691**53-55-58	
55A	674	686F/41-42-46	727F/42-42-46	741F/42-42-46	
		681**43-44-48	701**51-53-56	707**54-56-59	
52A	691	699F/43-44-47	741F/43-44-47	755F/44-44-47	
		695**44-45-49	716**52-54-57	722**55-57-60	
49	709	713F/44-45-49	756F/45-45-49	771F/45-45-49	
		711**45-46-50	733**53-55-58	740**56-58-61	
46	728	728F/45-47-51	772F/46-47-51	787F/46-47-51	
			751**54-56-59	758**56-58-62	
43	747	743F/46-48-53	788F/48-49-53	803F/48-49-53	
			768**54-56-60	775**57-59-63	
40	766	758F/47-50-54	804F/49-50-55	819F/49-50-55	
			785**55-57-61	790**57-59-63	
37	786	769B/48-50-55	820F/50-52-57	836F/51-52-57	
			790**52-54-58	790**52-54-58	
34	806	774B/48-51-56	834F/50-52-57	851F/50-52-57	
31	822	779B/48-51-56	847F/50-52-57	862F/50-52-57	
28	838	784B/48-51-57	858F/49-52-58	862F/49-52-58	
25	842	788B/48-51-57	862F/49-52-58	862F/49-52-58	
22	843	793B/48-52-58	862F/49-52-58	862F/49-52-58	
19	843	801B/48-52-58	862F/49-52-58	862F/49-52-58	
16	844	809B/48-52-58	862F/49-52-58	862F/49-52-58	
13	844	818B/48-52-58	862F/49-52-58	862F/49-52-58	
10	845	826B/48-52-58	862F/49-52-58	862F/49-52-58	
5	846	836F/48-52-58	862F/49-52-58	862F/50-52-58	
0	847	843F/48-52-58	862F/49-52-58	862F/50-52-58	
-5	847	849F/48-52-58	862F/49-52-58	862F/50-52-58	
-10	848	856F/48-52-58	862F/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20R NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1365 FT

RUNWAY 20R/A10 ZUCK

		*** FLAPS 05 ***	AIR COND OFF	ANTI-ICE OFF	JIANGBEIJICHANG CQ/SOUTHWEST DATED 10-JUN-2019
737-800		CFM56-7B26	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	100KG	-10	0	10
61A	642	639F/38-39-42	679F/39-39-42	693F/39-39-42	
			661**46-47-50	667**49-50-53	
58A	658	651F/39-40-44	692F/41-41-44	706F/41-41-44	
			676**47-48-51	683**49-50-54	
55A	674	664F/40-41-45	706F/42-42-46	720F/42-42-46	
			691**47-48-52	698**50-51-55	
52A	691	676F/41-42-46	719F/43-44-47	733F/44-44-47	
			705**48-49-53	712**51-52-56	
49	709	690F/42-43-48	734F/45-45-49	748F/45-45-49	
			722**49-50-54	729**52-53-57	
46	728	705F/43-45-49	749F/46-47-51	764F/46-47-51	
			739**50-51-55	746**52-54-58	
43	747	719F/44-46-51	764F/48-49-53	779F/48-49-53	
			756**50-52-56	764**53-55-59	
40	766	734F/45-47-52	779F/49-50-55	795F/49-50-55	
			773**51-53-57	781**54-56-60	
37	786	747F/45-48-53	795F/50-52-57	811F/51-52-57	
			790**52-54-58	790**52-54-58	
34	806	759F/46-49-55	809F/50-52-57	826F/50-52-57	
31	822	771F/47-50-56	822F/50-52-57	839F/50-52-57	
28	838	782F/47-51-57	833F/49-52-58	851F/49-52-58	
25	842	787F/48-51-57	839F/49-52-58	857F/49-52-58	
22	843	791F/48-52-58	843F/49-52-58	861F/49-52-58	
19	843	794F/48-52-58	847F/49-52-58	862F/49-52-58	
16	844	798F/48-52-58	851F/49-52-58	862F/49-52-58	
13	844	802F/48-52-58	855F/49-52-58	862F/49-52-58	
10	845	806F/48-52-58	859F/49-52-58	862F/49-52-58	
5	846	812F/48-52-58	862F/49-52-58	862F/50-52-58	
0	847	819F/48-52-58	862F/49-52-58	862F/50-52-58	
-5	847	825F/48-52-58	862F/49-52-58	862F/50-52-58	
-10	848	832F/48-52-58	862F/49-52-58	862F/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3000 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.01 PERCENT FOR TODA AND 0.01 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20R/A10 NONE

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B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3737 FT

RUNWAY 01

ZUGY

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	LONGDONGBAO GY/SOUTHWEST DATED 10-JUN-2019
737-800	CFM56-7B26			
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 595	546*/28-28-32	561*/30-30-34	566*/30-30-34	
	563**38-40-44	579**41-42-46	585**42-43-46	
58A 610	560*/29-29-34	575*/31-31-35	580*/32-32-36	
	577**40-42-45	594**43-44-47	599**44-45-48	
55A 626	574*/31-31-35	589*/33-33-37	594*/33-33-37	
	591**41-43-47	608**44-46-49	614**45-46-50	
52A 641	587*/32-32-37	603*/34-34-39	608*/35-35-39	
	605**43-45-49	623**46-47-51	628**47-48-52	
49A 656	601*/33-34-39	617*/36-36-40	623*/36-36-41	
	619**44-46-51	637**47-49-53	643**49-50-53	
46 672	615*/35-35-40	632*/37-37-42	638*/38-38-42	
	634**45-48-52	652**49-50-54	658**50-51-55	
43 690	631*/36-37-42	648*/39-39-44	654*/40-40-44	
	648**46-48-53	669**51-52-56	675**52-53-57	
40 708	646*/38-38-44	664*/40-40-45	670*/41-41-46	
	663**47-49-54	685**52-54-58	692**53-55-59	
37 727	662*/39-40-45	680*/42-42-47	686*/43-43-48	
	679**48-50-55	702**53-55-60	708**54-56-61	
34 744	677*/40-41-47	695*/43-43-49	701*/44-44-49	
	693**48-51-56	718**55-57-62	725**56-58-62	
31 758	690*/41-42-48	708*/44-44-50	714*/45-45-50	
	705**49-51-56	731**56-58-63	738**57-59-64	
28 771	700*/42-43-49	719*/45-45-51	725*/46-46-52	
	714**48-51-56	743**56-59-64	750**58-60-65	
25 780	709*/43-44-50	728*/46-46-52	734*/47-47-52	
	721**48-51-56	751**57-60-64	759**59-61-66	
22 787	714*/43-45-51	734*/46-47-52	740*/47-47-53	
	726**48-51-56	758**58-60-65	766**59-62-67	
19 787	715*/43-45-51	734*/46-47-52	741*/47-47-53	
	728**49-51-57	759**58-61-66	766**59-62-67	
16 787	716*/43-45-51	735*/46-47-52	741*/47-48-53	
	730**49-52-58	760**58-61-66	767**59-62-67	
13 788	716*/43-45-51	735*/46-47-53	742*/47-48-53	
	732**50-53-58	761**58-61-66	768**60-62-67	
10 788	717*/44-45-51	736*/46-47-53	743*/47-48-53	
	734**51-54-59	762**59-61-66	769**60-62-67	
5 789	717*/44-45-51	737*/47-47-53	744*/48-48-53	
	736**52-55-60	763**59-61-66	770**60-62-67	
0 790	718*/44-45-51	738*/47-47-53	745*/48-48-53	
	739**53-56-62	764**59-62-66	771**60-62-67	
-5 790	719*/44-45-51	739*/47-47-53	745*/48-48-53	
	741**54-58-63	765**59-62-67	773**60-62-67	
-10 791	720*/44-45-51	739*/47-47-53	746*/48-48-53	
	744**56-59-64	766**59-62-67	774**60-63-67	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 840 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 220 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.50 PERCENT FOR TODA AND -0.50 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 01 364 6490 0 387 6650 0 551 6845 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 3737 FT

RUNWAY 19 ZUGY

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	LONGDONGBAO GY/SOUTHWEST			
737-800	CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE							
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)							
C 100KG	-10 0 10						
61A 595	543*/27-27-32 553**37-38-42	561*/30-30-34 572**40-41-45	567*/30-30-34 579**41-42-46				
58A 610	557*/29-29-33 566**38-40-44	575*/31-31-35 586**42-43-46	581*/32-32-36 593**43-44-47				
55A 626	570*/30-30-35 579**39-42-46	589*/33-33-37 600**43-44-48	595*/33-33-38 607**44-45-49				
52A 641	583*/32-32-37 592**41-43-47	602*/34-34-38 613**45-46-50	608*/35-35-39 621**46-47-51				
49A 656	596*/33-33-38 605**42-44-49	616*/36-36-40 627**46-47-52	622*/36-36-41 634**47-48-52				
46 672	610*/34-35-40 619**44-46-51	630*/37-37-42 641**47-49-53	637*/38-38-42 649**49-50-54				
43 690	626*/35-36-41 634**45-48-52	646*/39-39-43 657**49-51-55	653*/39-39-44 665**50-52-56				
40 708	641*/37-38-43 649**46-49-54	662*/40-40-45 673**50-52-57	668*/41-41-46 681**52-53-58				
37 727	656*/38-39-45 664**48-51-56	677*/42-42-47 689**52-54-59	685*/42-42-47 697**53-55-59				
34 744	671*/39-41-46 679**49-52-58	693*/43-43-48 704**53-55-60	700*/44-44-49 712**54-56-61				
31 758	683*/40-42-48 691**49-53-58	706*/44-44-50 717**54-57-62	713*/45-45-50 725**55-58-62				
28 771	693*/41-43-49 701**49-52-58	716*/45-45-51 728**55-58-63	724*/46-46-51 737**56-59-64				
25 780	701*/42-43-50 709**49-52-58	725*/45-46-52 737**56-59-64	732*/46-47-52 745**57-60-65				
22 787	707*/42-44-50 715**49-52-58	731*/46-46-52 743**56-59-64	738*/47-47-53 752**58-60-65				
19 787	708*/43-44-50 717**49-52-58	732*/46-47-52 744**56-59-64	740*/47-47-53 753**58-60-65				
16 787	709*/43-44-50 718**50-53-59	733*/46-47-52 746**57-59-65	741*/47-47-53 755**58-61-65				
13 788	710*/43-44-50 719**52-55-61	734*/46-47-52 747**57-60-65	742*/47-48-53 756**58-61-66				
10 788	711*/43-44-50 721**52-56-61	735*/46-47-53 749**57-60-65	743*/47-48-53 758**58-61-66				
5 789	713*/43-44-51 723**53-57-62	737*/47-47-53 751**57-60-65	744*/48-48-53 760**59-61-66				
0 790	715*/43-45-51 725**53-57-63	738*/47-47-53 753**58-60-65	746*/48-48-53 762**59-61-66				
-5 790	716*/44-45-51 728**54-57-63	740*/47-47-53 755**58-61-66	748*/48-48-54 764**59-62-66				
-10 791	718*/44-45-51 730**54-58-63	741*/47-47-53 757**58-61-66	749*/48-48-54 767**59-62-67				

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 1060 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 220 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.50 PERCENT FOR TODA AND -0.50 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 19 223 2380 0 361 4450 0 404 5120 0
 443 5535 0 702 9970 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1683 FT

RUNWAY 02L ZUU

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				SHUANGLIJICHANG CD/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26				
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT CLIMB		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C 100KG	-10	0	10	
61A 635	615*/35-36-40	633*/38-38-41	638*/38-38-42	
	625**41-43-47	648**48-50-53	655**50-51-55	
58A 651	630*/36-37-41	648*/40-40-43	654*/40-40-43	
	639**42-44-48	663**49-51-54	671**51-53-56	
55A 668	645*/38-39-43	663*/41-41-45	669*/42-42-45	
	652**43-45-49	678**50-51-55	686**52-54-57	
52A 684	660*/39-40-45	679*/42-42-46	685*/43-43-47	
	666**44-46-50	693**50-52-56	701**53-55-58	
49 702	676*/40-42-46	696*/44-44-48	702*/45-45-49	
	682**44-46-51	710**51-53-57	718**54-56-59	
46 720	693*/42-43-48	713*/45-46-50	720*/46-46-50	
	698**45-47-51	726**52-54-58	736**54-56-60	
43 739	711*/43-45-50	731*/46-47-52	738*/47-48-52	
	715**45-48-52	743**53-55-59	753**55-57-61	
40 758	728*/44-47-51	749*/47-49-53	756*/48-50-54	
	731**47-49-54	761**54-56-60	771**56-59-63	
37 778	745*/46-48-53	767*/49-50-55	774*/50-51-56	
	748**47-50-55	778**54-57-61	788**57-59-63	
34 797	763*/47-50-55	785*/50-52-57	792*/51-52-57	
	764**48-51-56	790**52-55-59		
31 814	774B/47-50-56	800*/50-52-57	807*/50-52-57	
28 829	779B/47-51-57	812*/49-52-57	819*/50-52-57	
25 835	783B/48-51-57	818*/49-52-58	825*/50-52-58	
22 836	787B/48-51-57	819*/49-52-58	826*/50-52-58	
19 837	792B/48-52-58	820*/49-52-58	827*/50-52-58	
16 837	800*/48-52-58	821*/49-52-58	828*/50-52-58	
13 838	801*/48-52-58	822*/49-52-58	830*/50-52-58	
10 838	802*/48-52-58	824*/49-52-58	831*/50-52-58	
5 839	804*/48-52-58	825*/49-52-58	833*/50-52-58	
0 840	805*/49-52-58	827*/50-52-58	834*/50-52-58	
-5 840	807*/49-52-58	829*/50-52-58	836*/50-52-58	
-10 841	809*/49-52-58	830*/50-52-58	838*/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 590 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
02L	69	650	0	72	770	0	75	810	0
	98	1792	0	112	1980	0	131	2350	0
	174	2357	0	364	8650	0			

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ELEVATION 1683 FT

RUNWAY 02L/A2 ZUUU

SHUANGLIJICHANG
CD/SOUTHWEST
DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

			-10	0	10
C	100KG				
61A	635	604*/33-34-38	624*/37-37-41	630*/38-38-41	
			630**42-43-47	639**44-45-48	
58A	651	617*/35-36-40	639*/38-38-42	645*/39-39-43	
			644**43-45-48	653**45-46-50	
55A	668	631*/36-37-42	654*/40-40-44	660*/41-41-44	
			658**44-45-49	667**46-47-51	
52A	684	644*/37-38-43	669*/41-41-45	675*/42-42-46	
			672**45-46-50	681**47-48-52	
49	702	659*/38-40-45	685*/42-43-47	692*/43-44-48	
			687**45-47-51	697**47-49-53	
46	720	675*/40-41-46	702*/44-44-49	710*/45-45-49	
			704**45-46-50	713**48-50-54	
43	739	691*/41-43-48	719*/45-46-51	727*/46-47-51	
			720**47-48-53	730**49-51-55	
40	758	707*/42-44-50	736*/46-47-52	745*/47-48-53	
			737**48-49-54	747**50-51-56	
37	778	722*/43-46-51	753*/47-49-54	763*/48-50-55	
				764**51-52-57	
34	797	738*/44-47-53	769*/48-50-55	780*/50-51-56	
				781**51-54-58	
31	814	752*/45-48-54	785*/49-52-57	795*/50-52-57	
28	829	763*/46-49-55	796*/49-52-57	805*/50-52-57	
25	835	769*/46-50-56	801*/49-52-58	810*/50-52-58	
22	836	771*/46-50-56	803*/49-52-58	812*/50-52-58	
19	837	773*/47-50-56	804*/49-52-58	813*/50-52-58	
16	837	776*/47-50-56	806*/49-52-58	815*/50-52-58	
13	838	778*/47-50-57	808*/49-52-58	817*/50-52-58	
10	838	780*/47-51-57	809*/49-52-58	818*/50-52-58	
5	839	783*/48-51-57	812*/49-52-58	821*/50-52-58	
0	840	787*/48-51-57	815*/50-52-58	824*/50-52-58	
-5	840	790*/49-52-58	818*/50-52-58	825*/50-52-58	
-10	841	793*/49-52-58	819*/50-52-58	827*/50-52-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 580 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
02L/A2	69	650	0	72	770	0	75	810	0
	98	1792	0	112	1980	0	131	2350	0
	174	2357	0	364	8650	0			

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1683 FT

RUNWAY 02R ZUUU

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				SHUANGLIUIJICHANG CD/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT C	100KG	-10	0	10
61A	635	624*/36-37-41 638**46-49-53	641*/38-38-42 658**49-52-55	647*/38-38-42 665**51-53-56
58A	651	639*/37-38-42 653**47-51-54	657*/39-40-43 674**51-53-57	663*/40-40-43 681**52-54-57
55A	668	654*/38-40-44 668**49-52-56	673*/41-42-45 689**52-55-58	679*/41-42-45 697**53-56-59
52A	684	669*/40-41-45 683**50-54-58	688*/42-43-47 705**54-57-60	694*/42-43-47 712**55-57-61
49	702	686*/41-43-47 699**51-55-59	705*/44-45-49 722**55-58-62	711*/44-45-49 730**56-59-63
46	720	703*/42-45-49 715**51-55-59	723*/45-46-50 740**56-60-64	730*/45-46-50 748**58-61-65
43	739	721*/44-46-51 730**49-53-57	741*/46-48-52 758**58-62-65	748*/47-48-52 766**59-63-66
40	758	738*/45-48-52 745**48-52-56	759*/48-50-54 775**58-62-66	766*/48-50-54 784**60-64-68
37	778	756*/46-49-54 758**47-50-55	778*/49-51-56 790**56-59-63	785*/49-51-56 790**53-56-60
34	797	767B/47-50-55 772B/46-50-56	796*/50-52-57 810*/49-52-57	802*/50-52-57 817*/50-52-57
31	814	772B/46-50-56	810*/49-52-57	817*/50-52-57
28	829	777B/47-51-56	822*/49-52-57	829*/49-52-57
25	835	781B/47-51-57	828*/49-52-58	835*/49-52-58
22	836	785B/47-51-57	829*/49-52-58	836*/49-52-58
19	837	789B/48-52-57	830*/49-52-58	838*/49-52-58
16	837	796B/48-52-58	832*/49-52-58	839*/49-52-58
13	838	804B/48-52-58	833*/49-52-58	840*/49-52-58
10	838	812*/48-52-58	834*/49-52-58	841*/49-52-58
5	839	814*/48-52-58	836*/49-52-58	843*/49-52-58
0	840	816*/48-52-58	838*/49-52-58	845*/49-52-58
-5	840	818*/48-52-58	840*/49-52-58	847*/49-52-58
-10	841	819*/48-52-58	841*/49-52-58	849*/49-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.40 PERCENT FOR TODA AND -0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 02R 59 1100 0 62 1460 0 69 1470 0
 79 1560 0 112 2410 0 121 2700 0
 197 2900 0 187 4601 0 180 4406 0

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ELEVATION 1683 FT

RUNWAY 02R/E2 ZUUU

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			SHUANGLIJICHANG CD/SOUTHWEST						
737-800		CFM56-7B26			DATED 10-JUN-2019						
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE											
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)											
C	100KG	-10	0	10							
61A	635	614*/34-36-40 625**44-47-51	632*/37-38-41 646**48-50-54	638*/38-38-42 653**49-51-54							
58A	651	629*/36-37-41	647*/39-39-43	653*/40-40-43							
55A	668	639**45-49-53	661**49-52-55	669**50-53-56							
52A	684	643*/37-39-43 654**46-49-53	663*/40-41-45 677**51-53-57	669*/41-42-45 684**52-54-58							
49	702	658*/38-40-44 668**47-50-54	678*/41-42-46 692**52-55-59	684*/42-43-47 700**53-56-59							
46	720	674*/40-42-46 684**47-51-55	695*/43-44-48 709**53-57-60	701*/44-45-49 717**55-58-61							
43	739	691*/41-43-48 701**48-52-56	712*/44-45-50 726**55-58-62	719*/45-46-50 734**56-59-63							
40	758	708*/42-45-50 717**48-52-57	730*/45-47-51 743**56-60-64	737*/46-48-52 752**57-61-65							
37	778	725*/44-46-51 733**49-53-58	748*/47-49-53 761**56-60-65	755*/48-49-54 769**59-63-67							
34	797	743*/45-48-53 748**48-52-57	766*/48-50-55 778**57-61-65	773*/49-51-55 787**59-64-68							
31	814	760*/46-49-55 762**47-51-56	783*/49-52-57 790**53-56-60	791*/50-52-57							
28	829	772B/46-50-56	799*/49-52-57	806*/50-52-57							
25	835	777B/47-51-56	810*/49-52-57	818*/49-52-57							
22	836	781B/47-51-57	816*/49-52-58	823*/49-52-58							
19	837	785B/47-51-57	817*/49-52-58	825*/49-52-58							
16	837	789B/48-52-57	819*/49-52-58	826*/49-52-58							
13	838	796B/48-52-58	820*/49-52-58	827*/49-52-58							
10	838	798*/48-52-58	821*/49-52-58	829*/49-52-58							
5	839	799*/48-52-58	822*/49-52-58	830*/49-52-58							
0	840	801*/48-52-58	824*/49-52-58	832*/49-52-58							
-5	840	803*/48-52-58	826*/49-52-58	834*/49-52-58							
-10	841	805*/48-52-58	828*/49-52-58	836*/49-52-58							
		807*/48-52-58	830*/49-52-58	837*/49-52-58							

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M					
	HT	DIST	OFFSET	HT	DIST	OFFSET
02R/E2	59	1100	0	62	1460	0
	79	1560	0	112	2410	0
	197	2900	0	187	4601	0
					180	4406
						0

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EL ELEVATION 1683 FT

RUNWAY 20L ZUUE

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				SHUANGLIUIJICHANG CD/SOUTHWEST DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	635	610*/35-35-39 628*/37-37-41 633*/38-38-41 619**43-45-49 642**48-50-53 649**49-51-54		
58A	651	625*/36-37-41 643*/39-39-43 649*/40-40-43 633**44-46-50 657**50-51-55 664**51-52-56		
55A	668	639*/37-38-42 658*/40-40-44 664*/41-41-45 648**45-47-51 672**51-53-56 680**52-54-57		
52A	684	654*/39-40-44 673*/42-42-46 679*/43-43-46 662**46-48-52 686**52-54-58 695**53-55-59		
49	702	670*/40-41-46 690*/43-43-48 696*/44-44-48 678**46-49-53 703**53-55-58 711**55-57-61		
46	720	687*/42-43-48 707*/45-45-49 714*/46-46-50 694**48-50-55 720**53-55-59 729**56-58-62		
43	739	704*/43-44-49 725*/46-47-51 732*/47-47-52 710**49-52-57 737**54-56-60 746**56-58-63		
40	758	721*/44-46-51 743*/47-48-53 750*/48-49-53 726**51-54-59 754**55-57-61 764**56-59-63		
37	778	739*/45-47-53 761*/49-50-54 768*/50-50-55 742**51-54-59 771**56-59-63 781**57-60-64		
34	797	756*/46-49-54 778*/50-51-56 786*/51-52-57 758**49-52-58 788**57-60-65 790**53-54-59		
31	814	770*/47-50-56 794*/50-52-57 801*/51-52-57 772**48-51-57		
28	829	780B/48-51-57 806*/50-52-57 813*/50-52-57		
25	835	785B/48-51-57 811*/50-52-58 818*/50-52-58		
22	836	789B/49-52-57 813*/50-52-58 820*/50-52-58		
19	837	792*/49-52-58 814*/50-52-58 821*/50-52-58		
16	837	793*/49-52-58 815*/50-52-58 822*/50-52-58		
13	838	794*/49-52-58 816*/50-52-58 823*/50-52-58		
10	838	796*/49-52-58 817*/50-52-58 824*/50-52-58		
5	839	797*/49-52-58 819*/50-52-58 826*/50-52-58		
0	840	799*/49-52-58 821*/50-52-58 828*/50-52-58		
-5	840	801*/49-52-58 822*/50-52-58 829*/50-52-58		
-10	841	802*/49-52-58 824*/50-52-58 831*/50-52-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 450 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY			RUNWAY SLOPES ARE 0.40 PERCENT FOR TODA AND 0.40 PERCENT FOR ASDA			LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M		
	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
20L	39	470	0	56	640	0	49	890	0
	69	970	0	98	1150	0	52	1160	0
	102	1160	0	112	1350	0	148	1880	0
	92	1166	0	95	1432	0	95	1440	0
	75	1155	0	75	1162	0			

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ELEVATION 1683 FT

RUNWAY 20L/E8 ZUUU

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	SHUANGLIUJICHANG CD/SOUTHWEST			
737-800	CFM56-7B26	DATED 10-JUN-2019					
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE							
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)							
C	100KG	-10	0	10			
61A	635	599*/33-34-38 603**38-40-44	619*/36-36-40 627**44-46-49	625*/37-37-41 635**46-48-51			
58A	651	613*/34-35-40 617**40-41-46	634*/38-38-42 641**45-46-50	640*/39-39-42 649**47-49-52			
55A	668	627*/36-37-41 631**41-43-48	648*/39-39-43 655**46-47-51	655*/40-40-44 664**48-49-53			
52A	684	641*/37-38-43 644**42-45-49	663*/41-41-45 670**47-48-52	670*/41-41-46 678**49-50-54			
49	702	656*/38-40-44 659**44-46-51	679*/42-42-47 686**48-50-54	687*/43-43-47 694**50-51-55			
46	720	672*/40-41-46 675**45-48-53	696*/43-44-48 702**50-52-56	704*/45-45-49 711**51-53-57			
43	739	688*/41-43-48 691**46-49-54	713*/45-45-50 719**51-53-57	721*/46-46-51 728**53-55-59			
40	758	705*/42-44-49 707**46-48-54	730*/46-47-52 736**52-55-59	738*/47-48-52 745**54-56-61			
37	778	721*/43-45-51 723**46-48-54	747*/47-48-53 752**53-55-60	756*/48-49-54 762**55-58-62			
34	797	737*/45-47-53	764*/48-50-55 768**53-56-61	773*/49-51-56 779**56-58-63			
31	814	751*/45-48-54	780*/49-51-56 783**54-57-62	789*/51-52-57 790**51-53-58			
28	829	763*/46-49-55	793*/50-52-57	800*/50-52-57			
25	835	770*/47-50-56	798*/50-52-58	806*/50-52-58			
22	836	771*/47-50-56	799*/50-52-58	807*/50-52-58			
19	837	773*/47-50-56 774**49-52-58	801*/50-52-58	809*/50-52-58			
16	837	775*/47-50-56 776**49-53-59	802*/50-52-58	810*/50-52-58			
13	838	776*/47-50-56 778**50-53-59	803*/50-52-58	811*/50-52-58			
10	838	778*/48-50-57 780**50-54-60	805*/50-52-58	813*/50-52-58			
5	839	781*/48-51-57 783**51-55-61	807*/50-52-58	815*/50-52-58			
0	840	783*/48-51-57 786**52-56-62	809*/50-52-58	817*/50-52-58			
-5	840	786*/49-51-57 789**53-57-62	811*/50-52-58	819*/50-52-58			
-10	841	788*/49-52-57 790**50-53-59	813*/50-52-58	821*/50-52-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	IS	3200 M LONG WITH	0 M OF CLEARWAY AND	0 M OF STOPWAY
RUNWAY SLOPES ARE 0.40 PERCENT FOR TODA AND 0.40 PERCENT FOR ASDA				
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M				
20L/E8	HT	DIST	OFFSET	HT
39	470	0	56	640
69	970	0	98	1150
102	1160	0	112	1350
92	1166	0	95	1432
75	1155	0	75	1162
				HT DIST OFFSET

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 1683 FT

RUNWAY 20R ZUUU

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				SHUANGLIJICHANG CD/SOUTHWEST DATED 10-JUN-2019
737-800 CFM56-7B26		OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT C	100KG	-10	0	10
61A	635	634*/37-38-42 659**49-52-55	647*/38-38-42 668**51-53-56	652*/38-38-42 668**51-53-56
58A	651	650*/39-40-43 674**50-53-56	663*/40-40-43 685**53-55-58	668*/40-40-43 685**53-55-58
55A	668	665*/40-41-45 689**51-54-57	680*/41-42-45 702**54-57-60	684*/41-42-45 702**55-57-60
52A	684	681*/41-43-47 704**51-54-58	696*/43-43-47 719**56-58-62	700*/43-43-47 719**56-58-62
49	702	699*/43-44-48	713*/44-45-49	718*/44-45-49
		718**51-53-57	738**57-60-64	738**58-60-64
46	720	717*/44-46-50 731**50-52-56	732*/45-46-50 758**59-62-66	737*/46-46-50 758**59-62-66
43	739	735*/46-48-52 744**49-51-55	750*/47-48-52 774**59-62-65	755*/47-48-52 778**61-64-68
40	758	753*/47-49-54 756**48-50-54	769*/48-50-54 788**58-61-64	774*/48-50-54 790**59-62-65
37	778	763B/47-50-55	788*/50-51-56 790**53-56-60	793*/50-51-56 790**54-56-60
34	797	768B/47-50-55	806*/50-52-57	811*/50-52-57
31	814	773B/47-50-56	822*/50-52-57	827*/50-52-57
28	829	778B/47-51-56	835*/49-52-57	841*/50-52-57
25	835	783B/47-51-57	842*/49-52-58	847*/49-52-58
22	836	786B/48-51-57	843*/49-52-58	848*/49-52-58
19	837	791B/48-52-58	843*/49-52-58	849*/49-52-58
16	837	799B/48-52-58	844*/49-52-58	850*/49-52-58
13	838	807B/48-52-58	845*/49-52-58	851*/50-52-58
10	838	815B/48-52-58	846*/49-52-58	852*/50-52-58
5	839	829B/48-52-58	847*/49-52-58	853*/50-52-58
0	840	831*/48-52-58	848*/49-52-58	854*/50-52-58
-5	840	832*/48-52-58	849*/49-52-58	855*/50-52-58
-10	841	833*/48-52-58	850*/49-52-58	856*/50-52-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 590 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.08 PERCENT FOR TODA AND -0.08 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 20R 89 2110 0 177 3983 0 180 4295 0
 358 7211 0

Intentionally blank

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 709 FT

RUNWAY 06 ZYCC

		AIR COND OFF	ANTI-ICE OFF	LONGJIAJICHANG CC/NORTHEAST
*** FLAPS 05 ***				DATED 10-JUN-2019
737-800	CFM56-7B26			
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	656	685F/39-40-44 671**44-46-50	726F/40-40-44 689**53-55-58	740F/40-40-44 689**53-55-58
58A	672	698F/40-42-46 686**45-47-51	740F/41-42-46 705**53-56-59	755F/41-42-46 707**54-57-60
55A	688	711F/42-43-47 701**46-48-52	754F/42-43-47 721**54-57-60	769F/43-43-47 724**56-59-62
52	706	725F/43-45-49 716**46-49-52	769F/44-45-49 737**55-58-61	784F/44-45-49 742**57-61-64
49	724	740F/44-47-51 733**47-50-54	784F/45-47-51 754**55-58-62	800F/45-47-51 760**58-61-65
46	744	755F/46-48-53 750**48-51-55	801F/47-48-53 772**56-59-63	816F/47-48-53 778**58-62-66
43	763	768B/47-50-54 764**47-51-55	817F/48-50-54 789**56-60-64	833F/48-50-54 790**57-60-64
40	783	771B/47-51-55	834F/49-52-56	850F/50-52-56
37	804	776B/47-51-56	848F/49-52-57	862F/50-52-57
34	823	782B/47-51-57	862F/49-52-57	862F/49-52-57
31	840	787B/47-51-57	862F/48-52-58	862F/49-52-58
28	854	793B/47-51-58	862F/48-51-58	862F/48-51-58
25	855	801B/47-51-58	862F/48-51-58	862F/48-51-58
22	856	809B/47-51-58	862F/48-51-58	862F/48-51-58
19	857	817B/47-51-58	862F/48-51-58	862F/48-51-58
16	858	825B/47-51-58	862F/48-51-58	862F/48-51-58
13	858	833B/47-51-58	862F/48-51-58	862F/48-51-58
10	859	841B/47-51-58	862F/48-51-58	862F/48-51-58
5	860	855B/47-51-58	862F/48-51-58	862F/48-51-58
0	861	862F/47-51-58	862F/48-51-58	862F/48-51-58
-5	861	862F/47-51-58	862F/48-51-58	862F/49-51-58
-10	861	862F/47-51-58	862F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.58 PERCENT FOR TODA AND -0.58 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 06 NONE

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 709 FT

RUNWAY 24 ZYCC

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			LONG JIAJICHANG CC/NORTHEAST						
737-800		CFM56-7B26			DATED 10-JUN-2019						
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE											
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)											
C	100KG	-10	0	10							
61A	656	610*/34-35-39 613**39-41-45	632*/38-38-42 638**43-44-48	639*/38-38-42 646**45-46-49							
58A	672	624*/35-36-41 626**40-42-47	647*/39-39-43 652**45-46-50	654*/40-40-44 661**46-47-51							
55A	688	638*/37-38-43 639**40-41-46	661*/40-40-45 666**46-48-52	669*/41-41-45 675**48-49-53							
52	706	652*/38-39-44 653**42-44-48	677*/42-42-46 681**47-48-53	684*/43-43-47 690**49-50-54							
49	724	668*/39-40-46 669**42-44-49	693*/43-43-48 697**49-51-55	701*/44-44-49 707**51-52-57							
46	744	684*/41-42-47	710*/45-45-50 714**50-52-57	719*/46-46-51 724**52-54-58							
43	763	700*/42-43-49	727*/46-46-51 730**51-53-57	736*/47-47-52 740**53-55-59							
40	783	717*/43-45-51	745*/47-48-53 747**51-53-58	754*/48-49-54 758**54-56-60							
37	804	734*/44-46-52	763*/48-49-55 765**51-53-59	772*/49-50-56 775**54-56-61							
34	823	748*/45-48-54	779*/49-51-56 781**51-53-59	789*/51-52-57 790**52-53-58							
31	840	763*/46-49-55	794*/50-52-58	802*/50-52-58							
28	854	774*/47-50-56	804*/49-51-58	812*/50-51-58							
25	855	776*/47-50-57	805*/49-51-58	814*/50-51-58							
22	856	778*/47-50-57	807*/49-51-58	815*/50-51-58							
19	857	780*/47-50-57	808*/49-51-58	817*/50-51-58							
16	858	782*/48-51-57	810*/49-51-58	818*/50-51-58							
13	858	784*/48-51-57	811*/49-51-58	820*/50-51-58							
10	859	786*/48-51-57	813*/50-51-58	822*/50-51-58							
5	860	789*/48-51-58	815*/50-51-58	824*/50-51-58							
0	861	792*/49-51-58	818*/50-51-58	826*/50-51-58							
-5	861	794*/49-51-58	820*/50-51-58	829*/50-51-58							
-10	861	796*/49-51-58	822*/50-51-58	831*/50-51-58							

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 460 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.58 PERCENT FOR TODA AND 0.58 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 24 79 725 0 95 961 0 30 349 0
 36 370 0 98 1029 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 505 FT

RUNWAY 17

ZYDQ

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF SAERTUJICHANG

DQ/NORTHEAST

737-800 CFM56-7B26 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	660	599*/32-33-38	631*/37-37-42	642*/39-39-43
58A	676	611*/33-34-40	644*/38-39-43	655*/40-40-44
55A	693	623*/34-36-41	657*/39-40-44	668*/41-41-45
52	710	636*/35-37-43	671*/40-41-46	683*/42-42-47
49	729	649*/36-38-44	685*/42-42-47	698*/43-44-48
46	749	664*/37-40-46	701*/43-44-49	713*/44-45-50
43	768	678*/39-41-47	716*/44-45-51	729*/45-46-52
40	788	692*/40-42-49	732*/45-46-52	745*/46-48-53
37	809	706*/41-43-50	748*/46-48-54	761*/47-49-55
34	828	718*/41-44-51	762*/47-49-55	776*/48-50-56
31	846	731*/42-45-53	776*/48-50-56	791*/49-52-58
28	859	739*/42-46-54	786*/48-51-57	798*/49-51-58
25	860	743*/43-46-54	789*/48-51-58	800*/49-51-58
22	860	746*/43-47-54	791*/49-51-58	802*/49-51-58
19	861	749*/43-47-54	793*/49-51-58	804*/49-51-58
16	862	752*/44-47-55	796*/49-51-58	807*/49-51-58
13	862	755*/44-48-55	798*/49-51-58	809*/49-51-58
10	862	758*/44-48-55	800*/49-51-58	811*/49-51-58
5	862	763*/45-48-56	804*/49-51-58	815*/49-51-58
0	862	768*/45-49-56	807*/49-51-58	819*/49-51-58
-5	862	773*/46-49-56	811*/49-51-58	822*/49-51-58
-10	862	777*/47-50-57	815*/49-51-58	826*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
17 30 267 0 52 640 0 23 188 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 505 FT

RUNWAY 35 ZYDQ

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	SAERTUJICHANG DQ/NORTHEAST
737-800 CFM56-7B26				DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
C	100KG	-10	0	10
61A	660	615F/34-35-40	654F/40-40-44	668F/41-41-44
				665**42-42-46
58A	676	626F/35-36-41	666F/41-41-45	681F/42-42-46
				679**43-43-47
55A	693	637F/36-37-43	679F/42-42-46	693F/44-44-48
52	710	649F/37-39-44	692F/43-43-48	707F/45-45-49
49	729	663F/38-40-45	706F/44-45-49	721F/46-46-50
46	749	676F/39-41-47	720F/45-46-51	736F/47-48-52
43	768	689F/40-42-48	735F/46-47-52	750F/47-49-53
40	788	702F/41-43-50	750F/47-48-54	766F/48-50-55
37	809	715F/41-44-51	765F/47-50-55	781F/49-51-56
34	828	726F/42-45-52	777F/48-51-56	795F/50-52-57
31	846	738F/43-46-53	789F/49-52-58	807F/49-52-58
28	859	746F/43-47-54	799F/48-51-58	817F/49-51-58
25	860	750F/43-47-54	803F/48-51-58	821F/49-51-58
22	860	754F/44-48-55	806F/48-51-58	824*/49-51-58
19	861	757F/44-48-55	810F/49-51-58	826*/49-51-58
16	862	761F/44-48-55	814F/49-51-58	828*/49-51-58
13	862	764F/45-49-56	818F/49-51-58	831*/49-51-58
10	862	768F/45-49-56	822*/49-51-58	833*/49-51-58
5	862	774F/46-50-57	826*/49-51-58	838*/49-51-58
0	862	780F/47-50-57	830*/49-51-58	842*/49-51-58
-5	862	787F/47-51-58	834*/49-51-58	846*/49-51-58
-10	862	793F/48-51-58	838*/49-51-58	850*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2600 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 35 13 291 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 459 FT

RUNWAY 05

ZYHB

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	TAIPING JICHANG HEB/NORTHEAST
737-800 CFM56-7B26			DATED 10-JUN-2019		
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10	
61A	661	644*/38-39-43	666*/41-41-44	673*/41-41-44	
		650**44-46-50	674**49-51-55	683**51-53-56	
58A	677	659*/39-40-44	681*/42-42-46	688*/42-42-46	
		664**45-47-51	690**50-51-55	698**52-54-57	
55A	694	674*/40-42-46	696*/43-44-48	704*/44-44-48	
		679**46-49-53	705**51-53-56	713**53-55-58	
52	711	689*/42-43-48	713*/45-46-49	720*/45-46-49	
		694**48-51-55	721**52-54-58	730**54-56-60	
49	730	706*/43-45-49	730*/46-47-51	738*/46-47-51	
		710**49-52-57	738**54-56-60	747**55-57-61	
46	750	724*/44-46-51	748*/47-49-53	756*/48-49-53	
		727**49-52-57	756**54-57-61	766**56-59-63	
43	769	741*/45-48-53	767*/49-50-55	775*/49-51-55	
		743**49-53-58	773**56-59-63	783**58-61-65	
40	789	759*/46-49-54	785*/50-52-57	794*/51-52-57	
		761**49-53-58	790**54-56-61		
37	810	776*/47-51-56	802*/50-52-57	810*/50-52-57	
34	829	787B/48-52-57	816*/49-52-57	824*/50-52-57	
31	847	795B/48-52-58	830*/49-52-58	838*/49-52-58	
28	860	805B/47-51-58	839*/48-51-58	848*/49-51-58	
25	861	812B/47-51-58	841*/48-51-58	850*/49-51-58	
22	861	817*/47-51-58	843*/48-51-58	851*/49-51-58	
19	862	818*/47-51-58	845*/48-51-58	853*/49-51-58	
16	862	820*/47-51-58	846*/48-51-58	855*/49-51-58	
13	862	822*/47-51-58	848*/48-51-58	856*/49-51-58	
10	862	823*/47-51-58	849*/48-51-58	858*/49-51-58	
5	862	826*/47-51-58	852*/48-51-58	861*/49-51-58	
0	862	828*/47-51-58	855*/49-51-58	862F/49-51-58	
-5	862	831*/47-51-58	857*/49-51-58	862F/49-51-58	
-10	862	833*/47-51-58	859*/49-51-58	862F/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.16 PERCENT FOR TODA AND -0.16 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 05 59 1104 0 13 250 0 102 1480 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 459 FT

RUNWAY 23 ZYHB

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	TAIPING JICHANG HEB/NORTHEAST
737-800		CFM56-7B26				DATED 10-JUN-2019
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE				WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		
OAT	CLIMB	C 100KG	-10	0	10	
61A	661	647*/38-39-43	667*/41-41-44	674*/41-41-44		
		654**45-47-50	678**52-54-57	686**53-55-58		
58A	677	662*/40-41-45	683*/42-42-46	689*/42-42-46		
		668**46-48-52	693**52-54-58	702**54-56-59		
55A	694	677*/41-42-46	698*/44-44-48	705*/44-44-48		
		683**47-50-54	709**53-55-59	717**55-57-60		
52	711	693*/42-43-48	715*/45-46-49	722*/46-46-49		
		699**48-50-55	725**54-56-59	734**56-58-61		
49	730	710*/44-45-50	732*/47-47-51	740*/47-47-51		
		715**49-51-55	742**54-56-60	751**57-59-63		
46	750	727*/45-47-51	751*/48-49-53	759*/48-49-53		
		732**49-52-56	761**56-58-62	770**57-59-63		
43	769	745*/46-48-53	769*/49-51-55	777*/50-51-55		
		749**49-52-57	778**57-60-64	787**58-60-64		
40	789	763*/47-50-55	788*/51-52-57	796*/51-52-57		
		766**50-53-58	790**52-54-58			
37	810	781*/48-51-56	805*/50-52-57	812*/50-52-57		
34	829	789B/49-52-57	819*/50-52-57	827*/50-52-57		
31	847	798B/48-52-58	833*/49-52-58	841*/49-52-58		
28	860	807B/48-51-58	843*/49-51-58	851*/49-51-58		
25	861	815B/48-51-58	844*/49-51-58	852*/49-51-58		
22	861	821*/48-51-58	846*/49-51-58	854*/49-51-58		
19	862	823*/48-51-58	848*/49-51-58	856*/49-51-58		
16	862	824*/48-51-58	849*/49-51-58	857*/49-51-58		
13	862	826*/48-51-58	851*/49-51-58	859*/49-51-58		
10	862	827*/48-51-58	852*/49-51-58	860*/49-51-58		
5	862	830*/48-51-58	855*/49-51-58	862F/49-51-58		
0	862	832*/48-51-58	857*/49-51-58	862F/49-51-58		
-5	862	835*/48-51-58	859*/49-51-58	862F/49-51-58		
-10	862	837*/48-51-58	862*/49-51-58	862F/49-51-58		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 420 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	IS	3200 M LONG WITH	0 M OF CLEARWAY AND	0 M OF STOPWAY
		RUNWAY SLOPES ARE 0.16 PERCENT FOR TODA AND	0.16 PERCENT FOR ASDA	
		LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA	OBS FROM LO-FT/M	
		RUNWAY HT DIST OFFSET	HT DIST OFFSET	HT DIST OFFSET
23		16 300 0	49 1140 0	59 1230 0
		79 1450 0	92 1480 0	

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 262 FT

RUNWAY 06

ZYJM

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF JIAMUSIJICHANG
 737-800 CFM56-7B26 JMS/NORTHEAST
 DATED 10-JUN-2019

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	665	607F/33-34-39	647F/39-39-43	661F/41-41-44
58A	682	619F/34-35-41	659F/40-40-44	673F/42-42-46
55A	698	630F/35-36-42	671F/41-41-46	685F/43-43-47
52	716	642F/36-38-43	684F/42-42-47	699F/44-44-48
49	735	654F/37-39-45	698F/43-44-49	713F/45-45-50
46	755	667F/38-40-46	712F/44-45-50	727F/46-47-51
43	774	679F/38-41-47	726F/45-46-51	742F/47-48-53
40	795	692F/39-42-49	741F/46-47-53	757F/47-49-54
37	815	705F/40-43-50	755F/46-48-54	773F/48-50-56
34	834	717F/41-44-51	768F/47-49-56	785F/49-51-57
31	853	728F/41-45-53	780F/48-50-57	798F/49-51-58
28	862	736F/42-46-53	788F/48-51-58	806F/49-51-58
25	862	739F/42-46-54	792F/48-51-58	810F/49-51-58
22	862	743F/43-46-54	796F/48-51-58	814F/49-51-58
19	862	746F/43-47-54	800F/48-51-58	818F/49-51-58
16	862	750F/43-47-55	804F/48-51-58	822F/49-51-58
13	862	754F/44-47-55	808F/48-51-58	827F/49-51-58
10	862	757F/44-48-55	812F/48-51-58	831F/49-51-58
5	862	763F/45-48-56	819F/49-51-58	838F/49-51-58
0	862	770F/45-49-56	825F/49-51-58	845F/49-51-58
-5	862	776F/46-50-57	832F/49-51-58	850*/49-51-58
-10	862	782F/47-50-57	839F/49-51-58	853*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
 *=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2500 M LONG WITH 0 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.02 PERCENT FOR TODA AND -0.02 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 06 46 900 0 233 4950 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 262 FT

RUNWAY 24 ZYJM

*** FLAPS 05 ***			AIR COND OFF	ANTI-ICE OFF	JIAMUSIJICHANG JMS/NORTHEAST
737-800 CFM56-7B26			WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)		DATED 10-JUN-2019
OAT	CLIMB	100KG	-10	0	10
61A	665	606*/33-34-39	623*/36-36-41	629*/37-37-41	
			633**40-42-46	642**43-44-48	
58A	682	618F/34-35-40	638*/37-38-42	644*/38-38-43	
			647**41-42-47	656**44-45-49	
55A	698	629F/35-36-42	653*/39-39-44	659*/40-40-45	
			660**42-43-48	670**44-46-50	
52	716	641F/36-38-43	669*/40-41-46	675*/41-41-46	
			675**43-44-49	685**45-46-51	
49	735	654F/37-39-45	686*/42-42-48	693*/43-43-48	
			691**43-45-50	701**46-47-52	
46	755	666F/38-40-46	705*/43-44-49	711*/44-45-50	
			708**44-45-51	718**47-48-53	
43	774	679F/38-41-47	722*/44-46-51	729*/45-46-52	
			724**45-46-52	735**47-49-54	
40	795	692F/39-42-49	740*/45-47-53	747*/46-48-53	
				751**48-50-55	
37	815	705F/40-43-50	755F/46-48-54	765*/48-49-55	
				768**49-51-56	
34	834	716F/41-44-51	767F/47-49-56	782*/49-51-57	
				783**49-51-57	
31	853	728F/41-45-53	780F/48-50-57	798F/49-51-58	
28	862	735F/42-45-53	788F/48-51-58	804*/49-51-58	
25	862	739F/42-46-54	791F/48-51-58	806*/49-51-58	
22	862	742F/43-46-54	795F/48-51-58	808*/49-51-58	
19	862	746F/43-47-54	799F/48-51-58	811*/49-51-58	
16	862	749F/43-47-54	802*/48-51-58	811*/49-51-58	
13	862	753F/44-47-55	804*/49-51-58	812*/49-51-58	
10	862	757F/44-48-55	806*/49-51-58	813*/49-51-58	
5	862	763F/45-48-56	807*/49-51-58	815*/49-51-58	
0	862	769F/45-49-56	808*/49-51-58	816*/49-51-58	
-5	862	775F/46-50-57	809*/49-51-58	817*/49-51-58	
-10	862	782F/47-50-57	810*/49-51-58	817*/49-51-58	

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 940 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
24	33	470	0	36	470	0	39	620	0
	171	3660	0	220	4080	0	456	8426	0
	669	8492	0						

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 108 FT

RUNWAY 10 ZYTL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				ZHOUSHUIZIJICHANG DL/NORTHEAST DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	-10 0 10
737-800	CFM56-7B26		61A 669	621*/34-36-41 643*/38-39-43 650*/39-39-44
				626**41-44-48 651**48-50-54 659**49-51-55
			58A 685	635*/36-37-42 657*/39-40-44 665*/41-41-45
				640**41-44-49 665**48-51-55 674**50-53-57
			55A 701	649*/37-39-44 672*/41-41-46 680*/42-42-47
				653**42-45-50 680**48-51-55 689**51-54-58
			52 719	664*/38-40-45 688*/42-43-48 696*/43-44-48
				669**44-47-52 696**49-52-56 705**51-54-58
			49 738	680*/40-42-47 705*/43-44-49 713*/44-45-50
				685**45-49-54 712**50-53-57 722**52-55-59
			46 758	697*/41-43-49 723*/45-46-51 731*/46-47-52
				701**46-50-55 730**51-54-59 739**53-55-60
			43 778	714*/42-45-50 740*/46-48-53 749*/47-48-53
				717**47-51-56 747**52-56-60 757**54-57-62
			40 798	731*/43-46-52 759*/47-49-54 767*/48-50-55
				733**47-52-57 764**54-57-62 774**55-58-63
			37 819	748*/44-48-54 777*/48-51-56 786*/49-52-57
				750**48-52-58 781**55-59-64 790**52-55-60
			34 838	764*/45-49-55 793*/49-52-57 801*/49-52-57
				765**49-53-59
			31 858	780*/46-50-57 807*/48-51-58 816*/49-51-58
				781**49-54-60
			28 862	787*/47-51-58 814*/48-51-58 823*/48-51-58
				789**49-54-61
			25 862	789*/47-51-58 816*/48-51-58 824*/48-51-58
			22 862	791*/47-51-58 817*/48-51-58 826*/48-51-58
			19 862	792*/47-51-58 819*/48-51-58 827*/49-51-58
			16 862	794*/47-51-58 820*/48-51-58 829*/49-51-58
			13 862	795*/47-51-58 822*/48-51-58 831*/49-51-58
			10 862	797*/47-51-58 823*/48-51-58 832*/49-51-58
			5 862	799*/47-51-58 826*/48-51-58 835*/49-51-58
			0 862	801*/47-51-58 828*/48-51-58 837*/49-51-58
			-5 862	803*/47-51-58 830*/48-51-58 839*/49-51-58
			-10 862	805*/47-51-58 832*/48-51-58 841*/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188, 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3300 M LONG WITH 0 M OF CLEARWAY AND 50 M OF STOPWAY
 RUNWAY SLOPES ARE -0.15 PERCENT FOR TODA AND -0.15 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

10	59	330	0	121	1120	0	164	1500	0
	69	446	0	72	548	0	161	1536	0
	118	1161	0	36	289	0			

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 108 FT

RUNWAY 28 ZYTL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF ZHOUHUIZIJICHANG
 DL/NORTHEAST DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

		C 100KG	-10	0	10	
61A	669	544*/25-26-33	566*/28-29-35	573*/30-30-36		
		554**33-37-43	577**37-40-45	584**39-41-46		
58A	685	557*/26-27-34	579*/30-30-37	586*/31-31-37		
		566**34-39-44	590**39-42-47	598**40-43-48		
55A	701	570*/27-29-36	592*/31-32-38	600*/32-33-39		
		579**36-40-46	603**40-43-49	611**42-44-50		
52	719	584*/28-30-37	607*/32-33-40	614*/34-34-41		
		593**37-42-48	618**42-45-51	626**43-46-52		
49	738	598*/30-32-39	622*/34-35-42	630*/35-36-42		
		608**39-43-50	633**43-47-52	641**45-48-53		
46	758	614*/31-33-41	638*/35-36-43	646*/36-37-44		
		623**40-45-51	649**45-48-54	658**46-49-55		
43	778	629*/32-35-43	654*/36-38-45	662*/38-39-46		
		638**41-47-53	665**46-50-56	673**47-51-57		
40	798	644*/34-36-45	670*/38-39-47	678*/39-40-48		
		653**43-48-55	680**47-51-58	689**49-53-59		
37	819	659*/35-38-46	685*/39-41-48	694*/40-42-49		
		668**44-50-57	696**49-53-60	705**50-54-61		
34	838	674*/36-39-48	700*/40-42-50	709*/41-43-51		
		683**45-51-58	711**50-54-61	721**51-56-62		
31	858	689*/37-40-49	716*/41-44-52	725*/43-44-52		
		698**47-53-60	727**51-56-63	737**52-57-64		
28	862	696*/38-41-50	723*/42-44-52	732*/43-45-53		
		705**47-53-61	734**51-57-64	744**53-58-65		
25	862	697*/38-41-50	724*/42-44-52	733*/43-45-53		
		706**47-53-61	736**52-57-64	745**53-58-65		
22	862	698*/38-41-50	725*/42-44-52	735*/43-45-53		
		708**47-54-61	737**52-57-64	747**53-58-65		
19	862	699*/38-41-50	726*/42-44-53	736*/43-45-53		
		709**47-54-61	738**52-57-64	748**53-58-65		
16	862	700*/38-41-50	727*/42-45-53	737*/44-46-53		
		710**48-54-61	739**52-57-64	749**53-58-65		
13	862	701*/38-42-50	728*/42-45-53	738*/44-46-54		
		711**48-54-61	740**52-57-64	750**54-58-65		
10	862	701*/39-42-50	729*/43-45-53	739*/44-46-54		
		712**48-54-61	742**52-57-64	752**54-59-65		
5	862	703*/39-42-51	731*/43-45-53	740*/44-46-54		
		714**48-54-62	744**53-58-65	754**54-59-66		
0	862	704*/39-42-51	732*/43-45-53	742*/44-46-54		
		715**48-54-62	745**53-58-65	755**54-59-66		
-5	862	705*/39-42-51	733*/43-45-53	743*/44-46-54		
		717**48-54-62	747**53-58-65	757**54-59-66		
-10	862	706*/39-42-51	734*/43-45-53	744*/45-46-54		
		718**49-55-62	748**53-58-65	758**55-59-66		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 930 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	RUNWAY IS 3300 M LONG WITH 0 M OF CLEARWAY AND 50 M OF STOPWAY			RUNWAY SLOPES ARE 0.15 PERCENT FOR TODA AND 0.15 PERCENT FOR ASDA		
	LINE-UP DISTANCES:	19 M FOR TODA,	35 M FOR ASDA	OBS	FROM LO-FT/M	HT DIST OFFSET
28	226	3087	0	164	1802	0 174 1888 0
	545	9482	0	59	744	0 364 4333 0
	525	4460	0	52	556	0 715 4500 0
	66	823	0	135	1060	0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 108 FT

RUNWAY 28/A2 ZYTL

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF ZHOU SHUI ZI JI CHANG
 DL/NORTHEAST DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
 OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	OAT 100KG	-10	0	10
61A	669	541*/24-26-32 550**33-37-42	563*/28-28-35 574**37-40-45	570*/29-29-35 581**38-41-46
58A	685	554*/25-27-34 563**34-38-44	576*/29-30-36 587**38-41-47	583*/31-31-37 595**40-42-48
55A	701	567*/27-28-35 576**35-40-46	589*/31-31-38 600**40-43-48	597*/32-32-39 608**41-44-49
52	719	580*/28-30-37 590**37-41-47	604*/32-33-40 614**41-44-50	611*/33-34-40 623**43-46-51
49	738	595*/29-31-39 604**38-43-49	619*/33-34-41 629**43-46-52	627*/35-35-42 638**44-47-53
46	758	610*/31-33-41 619**39-44-51	635*/35-36-43 645**44-48-54	643*/36-37-44 654**46-49-55
43	778	625*/32-34-42 634**41-46-53	651*/36-37-45 661**46-49-56	659*/37-38-46 670**47-51-57
40	798	640*/33-36-44 649**42-48-55	666*/37-39-47 676**47-51-57	675*/39-40-47 686**48-52-58
37	819	655*/34-37-46 664**44-49-56	682*/39-40-48 692**48-53-59	691*/40-41-49 701**50-54-60
34	838	670*/36-39-47 679**45-51-58	697*/40-42-50 707**49-54-61	706*/41-43-50 717**51-55-62
31	858	685*/37-40-49 694**46-52-60	713*/41-43-51 723**50-55-62	722*/42-44-52 733**52-57-63
28	862	692*/37-41-50 701**47-53-60	719*/41-44-52 730**51-56-63	729*/43-45-53 740**52-57-64
25	862	693*/37-41-50 702**47-53-60	721*/42-44-52 731**51-56-63	730*/43-45-53 741**53-57-64
22	862	694*/38-41-50 703**47-53-61	722*/42-44-52 733**51-56-63	731*/43-45-53 743**53-58-64
19	862	695*/38-41-50 704**47-53-61	723*/42-44-52 734**51-57-64	732*/43-45-53 744**53-58-65
16	862	696*/38-41-50 706**47-53-61	724*/42-44-52 735**52-57-64	733*/43-45-53 745**53-58-65
13	862	697*/38-41-50 707**47-53-61	725*/42-44-52 736**52-57-64	734*/43-45-53 746**53-58-65
10	862	698*/38-41-50 708**47-53-61	726*/42-44-53 737**52-57-64	735*/43-45-53 748**53-58-65
5	862	699*/38-41-50 709**48-54-61	727*/42-44-53 739**52-57-64	737*/44-46-53 750**54-58-65
0	862	700*/39-41-50 711**48-54-61	729*/43-45-53 741**52-57-64	738*/44-46-54 751**54-59-65
-5	862	701*/39-42-51 712**48-54-61	730*/43-45-53 743**53-58-64	739*/44-46-54 753**54-59-65
-10	862	702*/39-42-51 713**48-54-62	731*/43-45-53 744**53-58-65	740*/44-46-54 754**54-59-66

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 920 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
28/A2	226	3087	0	164	1802	0	174	1888	0
	545	9482	0	59	744	0	364	4333	0
	525	4460	0	52	556	0	715	4500	0
	66	823	0	135	1060	0			

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 108 FT

RUNWAY 28/B ZYTL

*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	ZHOUSHUIZIJICHANG DL/NORTHEAST		
737-800		CFM56-7B26		DATED 10-JUN-2019		
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE						
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)						
C	100KG	-10	0	10		
61A	669	539*/24-25-32 548**32-36-42	561*/28-28-34 571**37-39-45	568*/29-29-35 579**38-41-46		
58A	685	551*/25-27-34 560**34-38-44	574*/29-30-36 584**38-41-46	581*/30-30-37 592**39-42-47		
55A	701	564*/26-28-35 573**35-39-45	587*/30-31-38 597**39-42-48	595*/32-32-38 605**41-44-49		
52	719	578*/28-29-37 587**36-41-47	601*/32-32-39 612**41-44-50	609*/33-33-40 620**42-45-51		
49	738	592*/29-31-39 601**38-42-49	616*/33-34-41 627**42-46-52	624*/34-35-42 635**44-47-53		
46	758	608*/30-33-40 616**39-44-51	632*/34-36-43 642**44-47-54	640*/36-37-44 651**45-49-55		
43	778	623*/32-34-42 631**40-46-52	648*/36-37-45 658**45-49-55	656*/37-38-45 667**47-50-56		
40	798	638*/33-36-44 646**42-47-54	664*/37-39-46 673**46-51-57	672*/38-40-47 683**48-52-58		
37	819	652*/34-37-46 661**43-49-56	679*/38-40-48 689**48-52-59	688*/40-41-49 698**49-53-60		
34	838	667*/35-38-47 676**44-50-58	694*/39-41-49 704**49-54-60	703*/41-42-50 714**50-55-61		
31	858	682*/36-40-49 691**46-52-59	710*/41-43-51 720**50-55-62	719*/42-44-52 729**51-56-63		
28	862	689*/37-40-49 697**46-52-60	717*/41-43-52 727**51-56-63	726*/42-44-53 737**52-57-64		
25	862	690*/37-40-49 699**46-52-60	718*/41-44-52 728**51-56-63	727*/43-45-53 738**52-57-64		
22	862	691*/37-40-50 700**46-53-60	719*/41-44-52 729**51-56-63	728*/43-45-53 739**52-57-64		
19	862	692*/37-41-50 701**47-53-60	720*/42-44-52 731**51-56-63	729*/43-45-53 741**53-57-64		
16	862	693*/38-41-50 702**47-53-60	721*/42-44-52 732**51-56-63	730*/43-45-53 742**53-58-64		
13	862	694*/38-41-50 703**47-53-61	722*/42-44-52 733**51-56-64	731*/43-45-53 743**53-58-65		
10	862	694*/38-41-50 704**47-53-61	723*/42-44-52 734**51-57-64	732*/43-45-53 744**53-58-65		
5	862	696*/38-41-50 706**47-53-61	724*/42-44-52 736**52-57-64	734*/43-45-53 746**53-58-65		
0	862	697*/38-41-50 708**47-53-61	726*/42-44-53 738**52-57-64	735*/44-45-53 748**53-58-65		
-5	862	698*/38-41-50 709**48-54-61	727*/43-44-53 739**52-57-64	737*/44-45-53 750**54-58-65		
-10	862	699*/39-41-50 710**48-54-61	728*/43-45-53 741**52-57-64	738*/44-46-54 751**54-59-65		

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 920 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	OBS	FROM LO-FT/M
28/B	226	3087	0	164	1802	0	174	1888 0
	545	9482	0	59	744	0	364	4333 0
	525	4460	0	52	556	0	715	4500 0
	66	823	0	135	1060	0		

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 200 FT

RUNWAY 06 ZYTX

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF				TAOXIANJICHANG SY/NORTHEAST
737-800 CFM56-7B26				DATED 10-JUN-2019
OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)	C 100KG	
		-10 0 10		
61A	667	643*/38-39-43 647**43-45-49	665*/41-41-45 672**48-49-52	672*/41-41-45 681**50-51-55
58A	683	657*/39-40-44 661**45-47-51	680*/43-43-46 687**49-50-54	687*/43-43-47 696**51-52-56
55A	699	672*/41-41-46 675**46-48-52	695*/44-44-48 702**51-52-56	703*/44-44-48 711**52-53-57
52	717	688*/42-43-47 691**47-49-54	712*/45-45-50 719**52-54-58	719*/46-46-50 728**54-55-59
49	736	704*/43-44-49 707**48-50-55	729*/47-47-51 736**53-55-59	737*/48-48-52 745**55-57-60
46	756	722*/44-46-51 724**48-51-56	747*/48-49-53 753**55-57-61	756*/49-49-54 763**56-58-62
43	776	739*/46-47-53 741**48-50-55	765*/49-50-55 771**54-57-61	774*/50-51-55 781**57-59-63
40	796	757*/47-49-54 758**48-51-56	784*/50-52-57 788**55-57-61	793*/51-52-57
37	817	774*/48-50-56	801*/50-52-57	808*/51-52-57
34	836	790*/49-52-57	814*/50-52-57	822*/50-52-57
31	855	803*/48-51-58	828*/49-51-58	836*/49-51-58
28	862	809*/48-51-58	835*/49-51-58	844*/49-51-58
25	862	811*/48-51-58	837*/49-51-58	846*/49-51-58
22	862	813*/48-51-58	839*/49-51-58	847*/49-51-58
19	862	814*/48-51-58	841*/49-51-58	849*/49-51-58
16	862	816*/48-51-58	842*/49-51-58	851*/49-51-58
13	862	818*/48-51-58	844*/49-51-58	852*/49-51-58
10	862	819*/48-51-58	845*/49-51-58	854*/49-51-58
5	862	822*/48-51-58	848*/49-51-58	857*/49-51-58
0	862	825*/48-51-58	851*/49-51-58	859*/49-51-58
-5	862	827*/48-51-58	853*/49-51-58	862*/49-51-58
-10	862	829*/48-51-58	855*/49-51-58	862F/50-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.40 PERCENT FOR TODA AND 0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 06 10 255 0 13 360 0 26 650 0
 72 980 0 69 980 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 200 FT

RUNWAY 06/A2 ZYTX

		*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF			TAOXIANJICHANG SY/NORTHEAST								
737-800 CFM56-7B26		DATED 10-JUN-2019											
A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE													
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)													
C	100KG	-10	0	10									
61A	667	625*/36-36-41	650*/39-39-43	657*/40-40-44									
			653**45-46-50	662**47-48-51									
58A	683	639*/37-38-43	664*/41-41-45	672*/42-42-46									
			667**46-47-51	676**48-49-53									
55A	699	653*/38-39-44	679*/42-42-46	687*/43-43-47									
			681**48-49-54	691**49-50-54									
52	717	668*/39-41-46	695*/43-44-48	703*/45-45-49									
			697**48-50-54	707**50-51-56									
49	736	683*/41-42-47	711*/45-45-50	720*/46-46-50									
			713**49-50-55	723**51-53-57									
46	756	700*/42-44-49	729*/46-47-51	738*/47-48-52									
			730**49-51-56	741**52-53-58									
43	776	716*/43-45-51	746*/47-48-53	755*/48-49-54									
			747**50-52-56	758**52-54-59									
40	796	731F/44-46-52	764*/48-50-55	773*/50-51-56									
			765**50-52-57	776**53-55-60									
37	817	744F/45-47-53	782*/49-51-57	792*/51-52-57									
			783**52-54-59										
34	836	756F/45-48-55	796*/50-52-57	805*/50-52-57									
31	855	768F/46-49-56	809*/49-51-58	818*/49-51-58									
28	862	776F/46-50-57	816*/49-51-58	825*/49-51-58									
25	862	780F/47-50-57	818*/49-51-58	827*/49-51-58									
22	862	783F/47-51-57	820*/49-51-58	829*/49-51-58									
19	862	787F/48-51-58	821*/49-51-58	831*/49-51-58									
16	862	791F/48-51-58	823*/49-51-58	832*/49-51-58									
13	862	794F/48-51-58	825*/49-51-58	834*/49-51-58									
10	862	798F/48-51-58	827*/49-51-58	836*/49-51-58									
5	862	801*/48-51-58	830*/49-51-58	839*/49-51-58									
0	862	804*/48-51-58	832*/49-51-58	841*/49-51-58									
-5	862	807*/48-51-58	835*/49-51-58	844*/49-51-58									
-10	862	809*/48-51-58	837*/49-51-58	847*/50-51-58									

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 440 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 200 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE 0.40 PERCENT FOR TODA AND 0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 06/A2 10 255 0 13 360 0 26 650 0
 72 980 0 69 980 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 200 FT

RUNWAY 24

ZYTX

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF TAOXIANJICHANG

SY/NORTHEAST

DATED 10-JUN-2019

737-800 CFM56-7B26

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE
OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)

C	100KG	-10	0	10
61A	667	672*/40-41-45 673**44-46-49	694*/41-41-45 699**53-55-58	700*/41-41-45 701**54-56-60
58A	683	687*/41-43-47 688**44-46-50	709*/42-43-47 714**53-56-59	716*/43-43-47 718**56-58-61
55A	699	702*/43-44-48 703**45-47-51	725*/44-44-48 730**54-57-60	732*/44-44-48 736**57-60-63
52	717	718*/44-46-50 719**46-48-52	742*/45-46-50 747**55-58-61	749*/45-46-50 754**58-61-65
49	736	734*/45-48-52	759*/46-48-52	766*/47-48-52
46	756	752*/46-49-53	765**56-59-62 777*/48-50-54	771**59-62-65 785*/48-50-54
43	776	770*/48-51-55	783**56-59-63 796*/49-51-56	790**59-63-66 803*/49-51-56
40	796	780B/48-51-56	813*/50-52-57	821*/50-52-57
37	817	785B/48-52-57	828*/49-52-57	836*/50-52-57
34	836	791B/48-52-57	841*/49-52-57	850*/49-52-57
31	855	801B/47-51-58	854*/48-51-58	862F/48-51-58
28	862	811B/47-51-58	862*/48-51-58	862F/48-51-58
25	862	818B/47-51-58	862F/48-51-58	862F/48-51-58
22	862	826B/47-51-58	862F/48-51-58	862F/48-51-58
19	862	834B/47-51-58	862F/48-51-58	862F/48-51-58
16	862	841*/47-51-58	862F/48-51-58	862F/48-51-58
13	862	843*/47-51-58	862F/48-51-58	862F/48-51-58
10	862	845*/47-51-58	862F/48-51-58	862F/48-51-58
5	862	848*/47-51-58	862F/48-51-58	862F/48-51-58
0	862	852*/47-51-58	862F/48-51-58	862F/48-51-58
-5	862	855*/47-51-58	862F/48-51-58	862F/48-51-58
-10	862	858*/47-51-58	862F/48-51-58	862F/49-51-58

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3200 M LONG WITH 200 M OF CLEARWAY AND 0 M OF STOPWAY
RUNWAY SLOPES ARE -0.40 PERCENT FOR TODA AND -0.40 PERCENT FOR ASDA
LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
24 52 980 0

B737-800-84P TAKEOFF ANALYSIS MANUAL

ELEVATION 200 FT

RUNWAY 24/A8 ZYTX

		*** FLAPS 05 ***		AIR COND OFF	ANTI-ICE OFF	TAOXIANJICHANG SY/NORTHEAST	DATED 10-JUN-2019
737-800		CFM56-7B26		WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
OAT	CLIMB	C 100KG	-10	0	10		
61A	667	649*/38-39-43	676*/41-41-45	685*/41-41-45			
			678**44-46-49	687**48-49-53			
58A	683	663*/39-41-45	691*/42-43-47	700*/43-43-47			
			692**45-46-50	702**49-50-54			
55A	699	677F/40-42-46	706*/44-44-48	715*/44-44-48			
			707**46-47-51	717**49-51-55			
52	717	689F/41-43-48	722*/45-46-50	732*/45-46-50			
			723**47-48-52	733**50-52-56			
49	736	702F/42-44-49	739*/46-48-52	749*/47-48-52			
			740**48-50-54	750**51-53-57			
46	756	715F/43-45-50	757*/48-50-54	767*/48-50-54			
			757**49-51-56	768**51-54-58			
43	776	728F/43-46-52	774*/49-51-55	785*/49-51-56			
				786**52-55-59			
40	796	742F/44-47-53	792*/50-52-57	802*/50-52-57			
37	817	755F/45-48-54	806*/49-52-57	815*/50-52-57			
34	836	767F/45-49-56	818*/49-52-57	828*/49-52-57			
31	855	780F/46-50-57	831*/48-51-58	841*/48-51-58			
28	862	788F/46-51-58	838*/48-51-58	848*/48-51-58			
25	862	791F/47-51-58	840*/48-51-58	850*/48-51-58			
22	862	795F/47-51-58	842*/48-51-58	852*/48-51-58			
19	862	799F/47-51-58	844*/48-51-58	854*/48-51-58			
16	862	803F/47-51-58	846*/48-51-58	857*/48-51-58			
13	862	806F/47-51-58	849*/48-51-58	859*/48-51-58			
10	862	810F/47-51-58	851*/48-51-58	861*/48-51-58			
5	862	817F/47-51-58	854*/48-51-58	862F/48-51-58			
0	862	824F/47-51-58	858*/48-51-58	862F/48-51-58			
-5	862	830*/47-51-58	861*/48-51-58	862F/48-51-58			
-10	862	833*/47-51-58	862F/48-51-58	862F/49-51-58			

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF
75976KG/B1596&B1597&B1598&B1185&B1186&B1188; 79015KG/B1593&B1595

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2800 M LONG WITH 200 M OF CLEARWAY AND 0 M OF STOPWAY
 RUNWAY SLOPES ARE -0.40 PERCENT FOR TODA AND -0.40 PERCENT FOR ASDA
 LINE-UP DISTANCES: 19 M FOR TODA, 35 M FOR ASDA OBS FROM LO-FT/M
 RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET
 24/A8 52 980 0